

LPC# 1250205056 Mason County
Havana Right of Way
ILN 000 050 9217
SF/HRS

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CERCLA Preliminary Assessment



Prepared by:
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Division of Remediation Management
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**CERCLA
Preliminary Assessment**

for:

**Havana Right of Way
Havana, Illinois
ILN #0000509217**

**PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
DIVISION OF REMEDIATION MANAGEMENT
OFFICE OF SITE EVALUATION**

May 16th, 2013

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Section 1.0 Introduction

On March 1st, 2010, the Illinois Environmental Protection Agency's (Illinois EPA's) Office of Site Evaluation was tasked by the United States Environmental Protection Agency (U.S. EPA) Region V Offices to conduct a Preliminary Assessment (PA) at the Havana Right of Way site in Havana, Mason County (ILD 1250205056), Illinois. The coordinates of the site are at 40.28967 ° latitude and -90.06486 ° longitude.

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 CFR Part 300) requires that a Preliminary Assessment be performed on all sites entered into the Comprehensive Environmental Response, Compensation, and Liability System (CERCLIS), U.S. EPA's inventory of hazardous waste sites.

A Preliminary Assessment is the initial step in the Superfund process that utilizes a limited-scope investigation and collects readily available information. The Preliminary Assessment distinguishes between sites that pose little or no threat to human health and the environment and those that require further investigation. The Preliminary Assessment also supports emergency response and removal activities, fulfills public information needs, and generally furnishes appropriate information about the site early in the assessment process.

If the findings of the Preliminary Assessment determine that further investigation is warranted, the site will continue to progress through the Superfund evaluation process and receive a Site Inspection. The Site Inspection will provide necessary information that will determine if the site qualifies for possible inclusion on the National Priorities List (NPL) or should be archived and receive a No Further Remedial Action Planned (NFRAP) qualifier. At any time throughout the Superfund evaluation process, the site may be assigned NFRAP status, be referred to another state or federal clean-up program, or recommended for further action. The Preliminary Assessment is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund.

Section 2.0 Site Background

2.1 Site Description

The Havana Right of Way site is located approximately at the intersection of Tinkham and Schrader streets in Havana, Mason County, Illinois (Figure 1). The Havana Right of Way is located in the southwest portion of Havana or more specifically, the Southwest ¼ of Section 1,

Township 12 North, Range 9 West of the Third Principle Meridian. The coordinates of the site are at 40.58967° latitude and -90.06486° longitude. The Havana Right of Way property is a triangular property consisting of old rail beds. The Havana Right of Way is bordered by Schrader Street on the east side, US 78 on the west side, and West Tinkham Street on the south. The area around the site is a mixture of residential, commercial, and industrial properties. Densely populated residential areas are located south and west of the site. Located north of the site are various commercial and industrial properties. These properties include restaurants, gas stations, and some light industry. Some residential properties are located west of the site, but the terrain is primarily dominated by a levee that parallels the Illinois River.

The properties surrounding the Havana Right of Way are mainly residential on the south and the west. Many of the houses have wells, but they are used for gardening and not for drinking. Groundwater from the site migrates to the west towards the Illinois River. Surface water drains to the southwest towards the street.

Site topography is almost completely level with some slight undulation. The exception to this is the former rail beds/right of ways that form the perimeter of the site. They are elevated relative to the properties they encompass.

2.2 Site History

The former rail right of ways, which roughly form the border of the Havana Right of Way, are owned by the City of Havana. According to historic Sanborn Fire Insurance Maps, several businesses have operated on the properties surrounded by the triangular area designated as the Havana Right of Way site since at least 1887.

Havana was incorporated as a town in 1848. By 1900, Havana was known as a fishing and hunting center and was actually the most important inland fishing port inside the United States. The railways that were built to serve this community moved freight and local passengers until automobiles became popular in the 1930's. Traffic and freight decreased until the railroad companies abandoned the railways around the Havana Right of Way site and the City of Havana acquired those properties.

The history of the railway beds that make up the Havana Right of Way site contains many changes in ownership of the rail beds due to foreclosures, mergers, bankruptcies, and reorganizations of the railroad companies. The Sanborn maps attached to this report show that

Chicago, Peoria, and St. Louis Railroad (CP&StL) owned the tracks that made up the current Havana Right of Way property. The earliest predecessor of the CP&StL was the Illinois Street Railroad chartered by the Illinois General Assembly in 1853 to build a line from Jacksonville north-northeasterly to LaSalle through the valley of the Illinois River. The line was opened from Virginia to Pekin in 1859, and it May 1864 the property was sold at foreclosure to the Peoria Pekin and Jacksonville Railroad. The railway lines changed hands several times through various companies and subsidiaries but were sold to CP&St.L in 1888. The CP&St.L operated a main rail line between Pekin and Madison (near St. Louis). Its property was sold at foreclosure to several new companies in the 1920's. The railways north of Havana became the Illinois and Midland Railroad, while the section of rail in the Havana Right of Way was abandoned.

2.3 Regulatory Status

Based upon available file information the Havana Right of Way does not appear to be subject to Resource Conservation and Recovery Act (RCRA) correction action authorities. Information currently does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), or the Federal Insecticide Fungicide or Rodenticide Act (FIFRA).

Section 3.0 Field Inspection Activities

3.1 Field Inspection

During the Prairieland Steel Site Inspection (ILD005229497), samples were collected on the Havana Right of Way site and surrounding properties. The samples were analyzed for both the organic and inorganic portions of the Target Compound List (TCL). Relevant results from this investigation are included here and will help determine whether or not the Havana Right of Way will proceed in the CERCLA process.

According to the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300.420 (b) and (c), among the goals of a preliminary assessment and of a site investigation are to determine if there is any need for removal action, and if the assessment or investigation indicates that a removal action is warranted, to initiate a removal site evaluation pursuant to 40 CFR Part 300.410. To this end, the U.S. EPA has developed Removal Management Levels (RMLs) to serve as a guide to the evaluation of potential hazardous

conditions of a site. These RMLs are not meant to be the sole foundation for cleanup decisions. RMLs are a screening tool to help characterize the site. RMLs are just one source of information out of many as to what decisions will ultimately take place at the site.

Background samples taken during the Prairieland Steel Site Inspection were collected from areas deemed likely to not be contaminated from past site activities. The criteria used to determine an observed release is based upon analytical samples that are at least three times background concentrations. In each subsection below, the actual samples are compared to the background level for each individual analyte for each matrix. If a sample contains a level of an analyte at least three times the background concentration and is above the RML, then the sample was highlighted in red in the sample table as meeting the observed release criteria.

3.2 Groundwater

Six groundwater samples (G101-G106, with G101 as background) were collected using the GeoProbe unit around the site and nearby residences. The samples were collected directly from borings in the ground using the GeoProbe. Groundwater was encountered at 14.5 to 15 bgs. The locations of the groundwater samples are depicted in the Figure 4 Sample Location map and the analytical results can be found in Tables 7 through 11. Groundwater is expected to flow west towards the Illinois River.

For the VOCs, sample G103 had concentrations of cis-1,2-dichloroethene, 1,1,1-trichloroethane, and tetrachloroethene that met the observed release criteria. SVOCs, Pesticides, and PCBs, were not found in any to exceed any observed release criteria.

The groundwater results generated from the organic fraction of the tests were then compared to RMLs. One of the cis-1,2-dichloroethene results was above the RML, but the 1,1,1-trichloroethane results for this sample were well below the RMLs. However, the tetrachloroethene result of 190ug/L was significantly higher than the RML of 100ug/L.

For the inorganic tests, multiple analytes met the observed release criteria for all of the samples. Table 11 should be consulted for a complete list. Included in this list are contaminants of concern from past investigations. Specifically, one of these contaminants is lead. Neither lead nor any of the other metals were above any of the RMLs established for groundwater.

3.3 Residential Wells

Five residential well samples (G201-G205, with G202 as background) were collected using the GeoProbe unit around the site. The locations of the residential well samples are depicted in the Figure 4 Sample Location map and the analytical results can be found in Tables 1 through 6.

In sample G205, trichloroethene was detected at three times the background level at 2.0ug/L but was below the RML of 7.7ug/L. Tetrachloroethene was also detected in the sample, but it was found at a concentration just above the detection limit and was not highlighted. No other VOCs, SVOCs, pesticides, or PCBs were above the detection limits for the residential well samples.

Lead levels met the observed release criteria in three of the sample locations. Zinc was also found above three time background concentrations in two of the remaining four sample locations. The concentration of zinc in sample G204 almost qualified as three times background as well but was not highlighted. Copper was found above the observed release criteria in all of the samples. All of the samples contained chromium and were highlighted in the tables, but the results were not above the reporting limits and are estimations only. Sample G204 had an estimated detection below the reporting limit but at least three times the background for silver.

3.4 Surface Water

Surface water samples were not collected due to the fact that the nearest body of surface water is the Illinois River some distance away (at least 250 meters). There appears to be no surface water pathway to the river.

3.5 Soil

Twelve soil samples (X101-X112, with X101 as background) were collected at various depths from Havana Right of Way and surrounding residential areas in order to determine if potential contamination from the previous activities at the site had impacted the site and the surrounding residences. The depths for each sample are included in the boring logs found in Appendix A. The locations of the soil samples are depicted in the Figure 4a Sample Location map and the analytical results can be found in Tables 12 through 16.

For VOCs, sample X103 had tetrachloroethene at concentrations that met the observed release criteria; however, was significantly less than the RML of 1200mg/kg. Samples X107, X109, and X110 had levels of methylene chloride just above the reporting limit, but below the RML. Methylene chloride is a common laboratory artifact and may or may not actually be in the samples at the low concentrations found here. For the SVOCs, samples X109 and X110 contained several polynuclear aromatic compounds slightly above the observed release criteria and above the RMLs. There were no compounds detected above background for the Pesticides or PCB fractions of the analyses. Complete results can be found in Tables 12 through 15.

For the inorganic tests, multiple analytes met the observed release criteria for all of the samples. Table 16 should be consulted for a complete list. Included in this list are contaminants of concern from past investigations. Specifically, these contaminants include arsenic, lead, and zinc. Samples X103 and X108 were reported above background and above the RML for Arsenic. Many of the soil samples were reported above background for lead, but the only sample results above the RML of 800mg/kg was X104.

3.6 Air

Air samples were not collected at the site. Available file information gave no indication that open burning occurred on-site. Nor are there any available reports of odors emanating from the site.

3.7 Past Environmental Investigations

In June 2004, a Pre-CERCLIS Screening Assessment (PCS) was conducted by Illinois EPA for the Havana Right of Way properties. An X-ray fluorescence (XRF) survey was conducted at Havana Right of Way. The XRF survey revealed lead levels up to 67,000 parts per million (ppm) and elevated levels of arsenic primarily in the upper two feet of soil. Analytical results taken at this time revealed total lead at up to 45,000 ppm in a waste pile and a concentration of 360 mg/l pursuant to the Toxicity Characteristic Leaching Procedure (TCLP).

In July 2006, U.S. EPA conducted a removal assessment of the adjacent Prairieland Steel site. Several soil samples were collected in the vicinity of the Havana Right of Way site to determine to determine the aerial extent of lead contamination the waste pile. Soil samples

collected from a depth of 0-6 inches on the waste pile found total lead levels at up to 210,000 mg/kg.

From October 11, through October 19, 2007, the U.S. EPA Region 5 Emergency Response Branch conducted a time-critical removal action at the Prairieland Steel site.

Approximately 460 tons of lead contaminated soil were excavated from the waste pile and transported off-site to a hazardous waste landfill for treatment and disposal. Backfill was placed in excavated areas where the cleanup objective of 800 ppm was met. During the excavation activities, an area of volatile organic compounds (VOCs) was discovered at approximately 2 feet below ground surface. A soil sample was collected from this area, a piece of snow fence was placed on the bottom of the excavation as a demarcation barrier, and the area was backfilled. Analytical results found high levels of tetrachloroethene at approximately 300 ppm. On November 13, 2007, U.S. EPA returned to the site to complete the installation of an asphalt cap over a lead contaminated concrete pad and portions of a site road with elevated lead levels. Two inches of asphalt were placed over the contaminated media to prevent contact with the lead and migration of the contamination.

Section 4.0 Pathway Discussions

As identified in CERCLA's Hazard Ranking System, the Office of Site Evaluation evaluates three migration and one exposure pathway. Sites are evaluated on their known or potential impact these pathways have on human health and the environment. The following paragraphs will evaluate the groundwater, surface water, soil exposure, and air migration pathways.

4.1 Groundwater

According to the Illinois State Water Survey, sand and gravel deposits underlying Mason County constitute one of the largest Aquifers in Illinois. The area is wide bedrock lowland that was formed at the confluence of the ancient Mississippi and Mohamet Rivers and is now buried beneath a thick mantle of glacial deposits, mainly sand and gravel.

The deposits include ancient stream fill and later glacial outwash that poured down the Illinois River Valley. Near Havana, the deposits range in thickness from about 100 to 150 feet and are composed of sand and gravel from land surface to the underlying bedrock units. In the

upland areas, the glacial materials range in thickness from about 200 to 300 feet and are composed of sand and gravel at the base overlain by glacial till.

Pennsylvanian and Mississippian age rocks underlie the glacial deposits and are not generally developed as a source for groundwater. Rocks beneath the Mississippian units contain water that is too highly mineralized for most purposes.

The City of Havana (population 3,301 via 2010 Census) installed a public water supply in 1889. The City uses three wells that supply approximately 1600 service points. Wells #2 and #4 are near the Havana Water Plant located on the block at the northeast intersection of E. Main and High Streets. Well #5 is located at the Chester Youth Center in Rice Park, between E. Adams and E. Washington Streets on S. Promenade Street. Well #4 is the primary well with #2 as back-up and #5 on stand-by for occasional use. Well #5 is closest to the Havana Right of Way site at 3500 feet east-northeast of the site. Wells #2 and #4 are located about 4000 feet northeast of the site. All three wells were finished in sand and gravel.

Illinois EPA's Division of Public Water Supplies sampled raw water from the three Havana wells in 1986. The analysis found no organic contamination, but did detect levels of manganese and iron. Quarterly sampling since 1990 has showed no contamination in well #4 as part of the United States Geological Service (USGS) trend site monitoring program.

4.2 Surface Water

Although the Havana Right of Way is located close to the Illinois River, the Flood Insurance Rate Maps indicate that it is located outside the 500-year flood boundary. It is unlikely for this reason that contamination from the site has impacted the river via the overland flow path.

Much of the site run-off enters on-site sewer and storm drains that flow to the Havana Sanitary Treatment Works. From the treatment plant, effluent flows into the Illinois River. Routine plant influent sampling by Illinois EPA's Division of Water Pollution Control (WPC) has revealed no abnormal waste characteristics that would be exclusively associated with Havana Right of Way.

An Illinois EPA WPC inspector has noted that several of the facility drains are of unknown destination. It is unclear whether or not these drains are flowing to the treatment plant. Since the Illinois River is only three and one half blocks west of the Havana Right of Way, it

may be that in the facility's early existence, French drains were built to carry the wastewater to the river.

According to Illinois EPA's Division of Public Water Supplies, the only River surface drinking water intake is located in Peoria, upstream of Havana. Despite no municipal intakes, the Havana stretch of the Illinois River is highly valued for other reasons. The Illinois Department of Conservation (IDOC) has listed the Illinois River at Havana as an important fishery and recreational area. Also, there is a large area of nearby wetlands associated with the River.

4.3 Soil Exposure

The soil exposure pathway appears to be the primary pathway of concern associated with the Havana Right of Way. This determination is based upon information gathered during the 2004 Pre-CERCLIS Screening Assessment, and prior IEPA investigations near the site. X-ray fluorescence and IEPA laboratory results indicate that in some areas of the site there is heavy metal contamination that meets CERCLA criteria for an observed release.

There is no indication that the property is used for recreational purposes. There are less than ten employees currently within the Havana Right of Way site. There is a densely populated residential area located immediately to the south and east of the site, but there are no daycares or schools close by. It should be noted that the site does not have good vegetative cover in some areas. Exposure to Prairieland Steel's Hazardous wastes and potentially contaminated soil is limited by a fence that surrounds the back of the facility. "Keep Out" signs are located at the gates.

Census data has been compiled and formatted for use in GIS applications by ESRI, a GIS software company. ESRI used demographic data from the "Census 2000 Summary File" represented by Census Block Centroids to generate data that can be overlain onto maps for analysis (ESRI). In order to calculate population in areas surrounding the site, the ESRI census data was overlain onto a map from the region and queried based on distance from the site's boundary. Population data based on GIS analysis for areas surrounding the site is shown below.

Population within one mile of the site

Distance (mi)	Population
¼ mile	278
½ mile	1,118
1 mile	2,489

4.4 Air Route

There may be a potential for Havana Right of Way to impact the air pathway. Inorganic contaminants from the soil around the old railway beds could become airborne.

Air monitoring was not conducted during this investigation. Heavy metal contamination was the focus of the 2004 Pre-CERCLIS Screening (PCS). Additionally, there is no indication in the files that open burning ever occurred on the site or that there were any reports of odors emanating from the site.

Section 5.0 Summary

The purpose of this Preliminary Assessment was to determine if contamination exists at Havana Right of Way and to determine if remediation objectives were being pursued.

The groundwater pathway remains a concern. Information collected by the Illinois EPA's Source Water Assessment Program (SWAP) ArcIms Mapping Tool did not show any evidence of private drinking wells. Although there are no documented wells, some residents have private drinking water wells, which could be contaminated by past processes at Havana Right of Way. The private wells sampled did show metal contamination above background levels.

In the past, windborne contamination from the site may have been emitted from the Havana Right of Way. Contamination may have potentially been blown into the surrounding areas. Possible human exposure to airborne materials has not been documented.

The abandoned railway beds that make up the perimeter of the Havana Right of Way are not fenced off. The public has access to all three of the sides of the triangle that make up the Havana Right of Way. The west side of the Havana Right of Way is especially accessible because it runs parallel to State Route 78, and this area is not largely vegetated and is relatively flat. Soil exposure to workers on site and trespassers is a possibility. Soil samples collected at Havana Right of Way showed elevated levels for organic and inorganic contaminants above background and above RMLs. For the organic results, it was several PAHs for samples X109 and X110. For the inorganic results, it was arsenic for multiple sample locations, lead for sample X104, and thallium for sample X106.

The surface water pathway is not a direct concern. There is no direct overland route for potential run-off from the site to travel and no evidence of a groundwater to surface water

discharge. Much of the site run-off enters on-site sewer and storm drains that flow to the Havana Sanitary Treatment Works. From the treatment plant, effluent flows into the Illinois River. Routine plant influent sampling by Illinois EPA's Division of Water Pollution Control (WPC) has revealed no abnormal waste characteristics that would be exclusively associated with Havana Right of Way.

Section 6.0 References

Berg, Richard C., and Kempton, John P., 1988, Stack-Unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters, Illinois Stratigraphy, Illinois State Geological Survey

Goodwin Environmental Consultants, Inc. Site Investigation Work Plan for the Former Prairieland Steel Facility, Havana, IL.

Illinois Environmental Protection Agency, Bureau of Land; File for Prairieland Steel, LPC # 1250205005.

Illinois Environmental Protection Agency, Bureau of Land; File for Havana Right of Way, LPC # 1250205056.

U.S. Census data found at <http://censusviewer.com/city/IL/Havana>

Roy F. Weston's Site Assessment Technical Assistance Team for the U.S. Environmental Protection Agency Region III Superfund Removal Branch, 1997, Hazard Evaluation Handbook A Guide to Removal Actions, Fourth Edition, EPA 903/B-97-006

Figure 1

Figure 1

SITE LOCATION MAP

Havana Right of Way
Mason County
Havana, Illinois

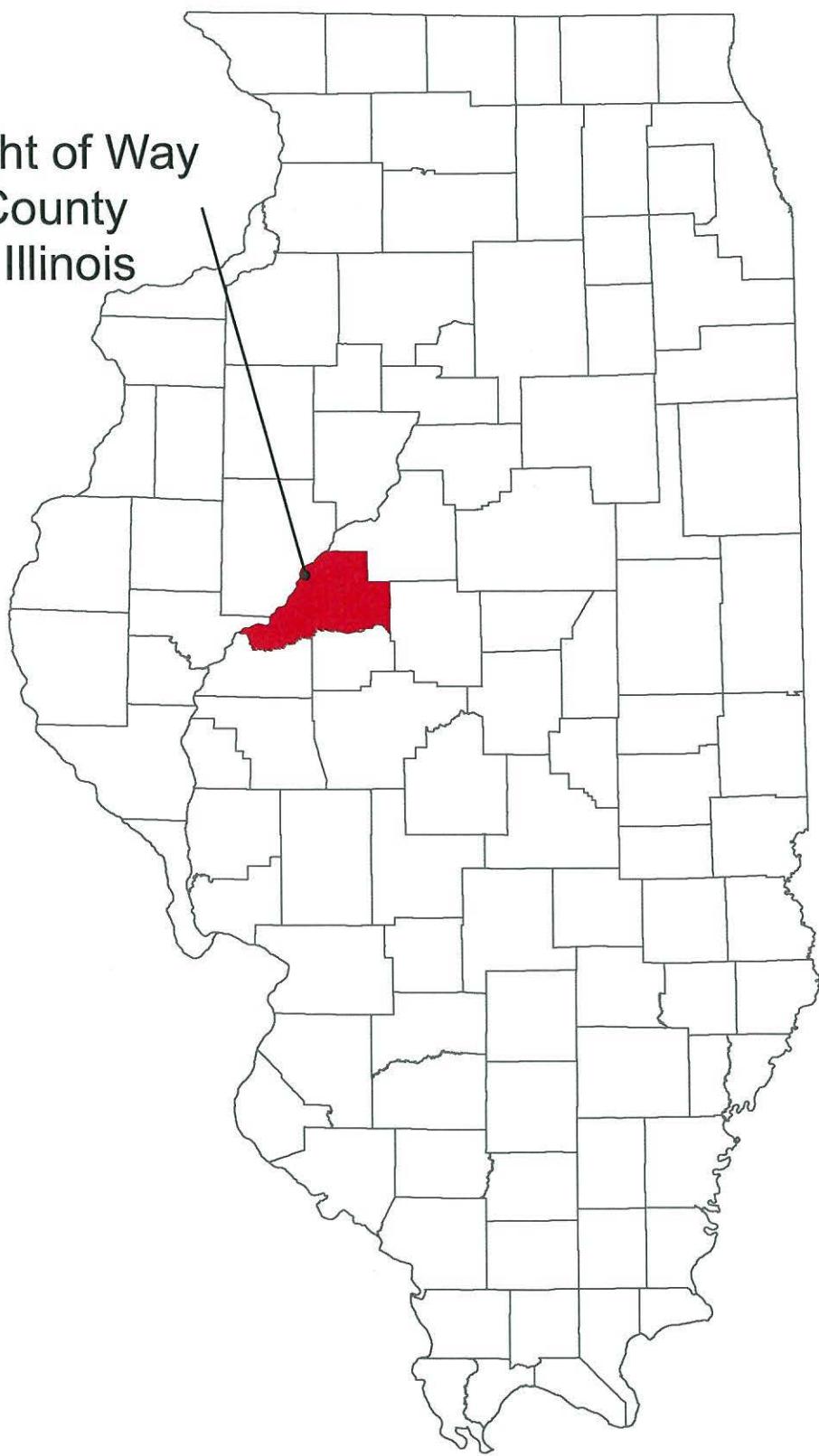


Figure 2

FIGURE 2
Site Topographic Map

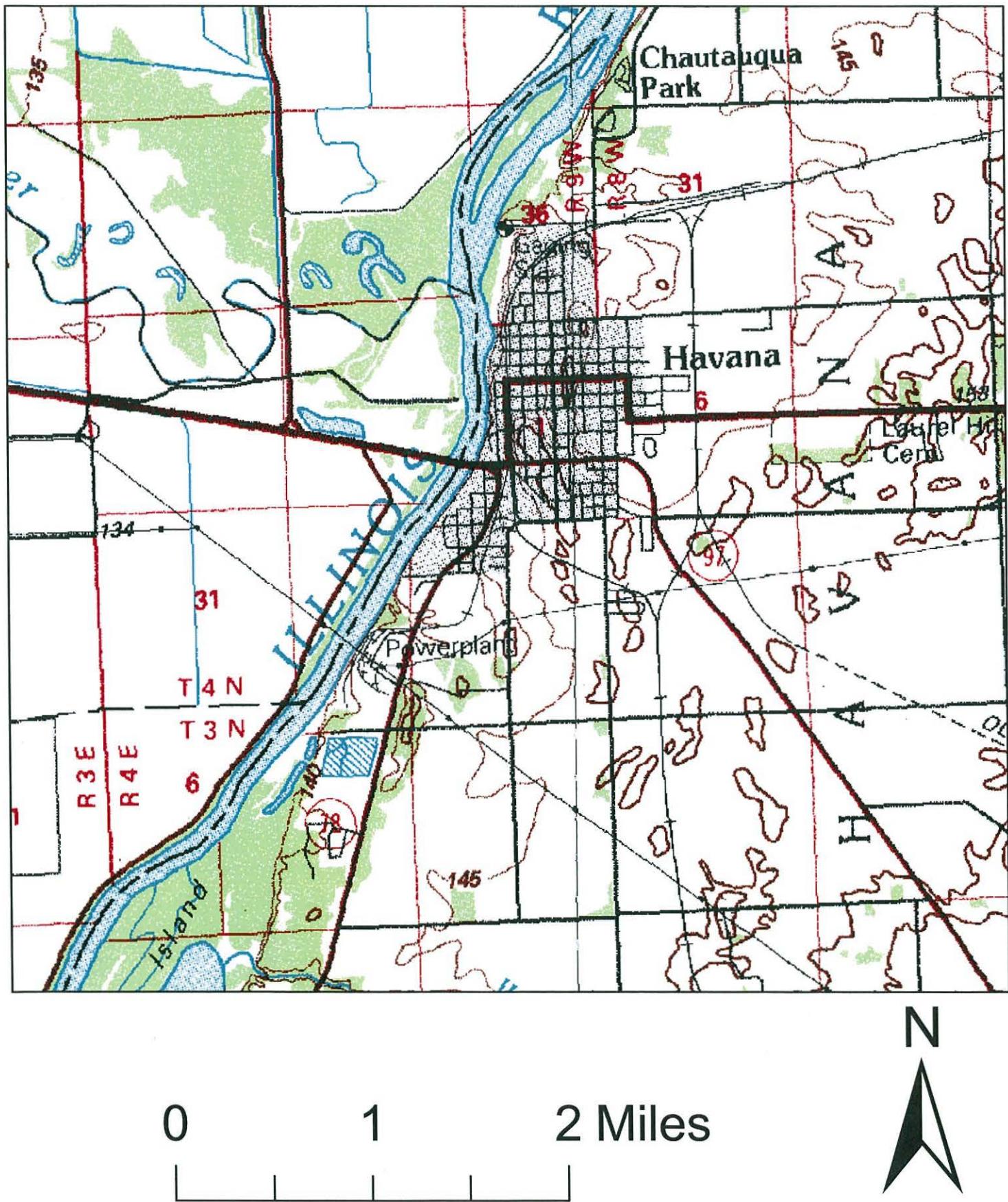


Figure 3

Figure 3
Havana Right of Way



Figure 4a

Figure-4 Soil Location

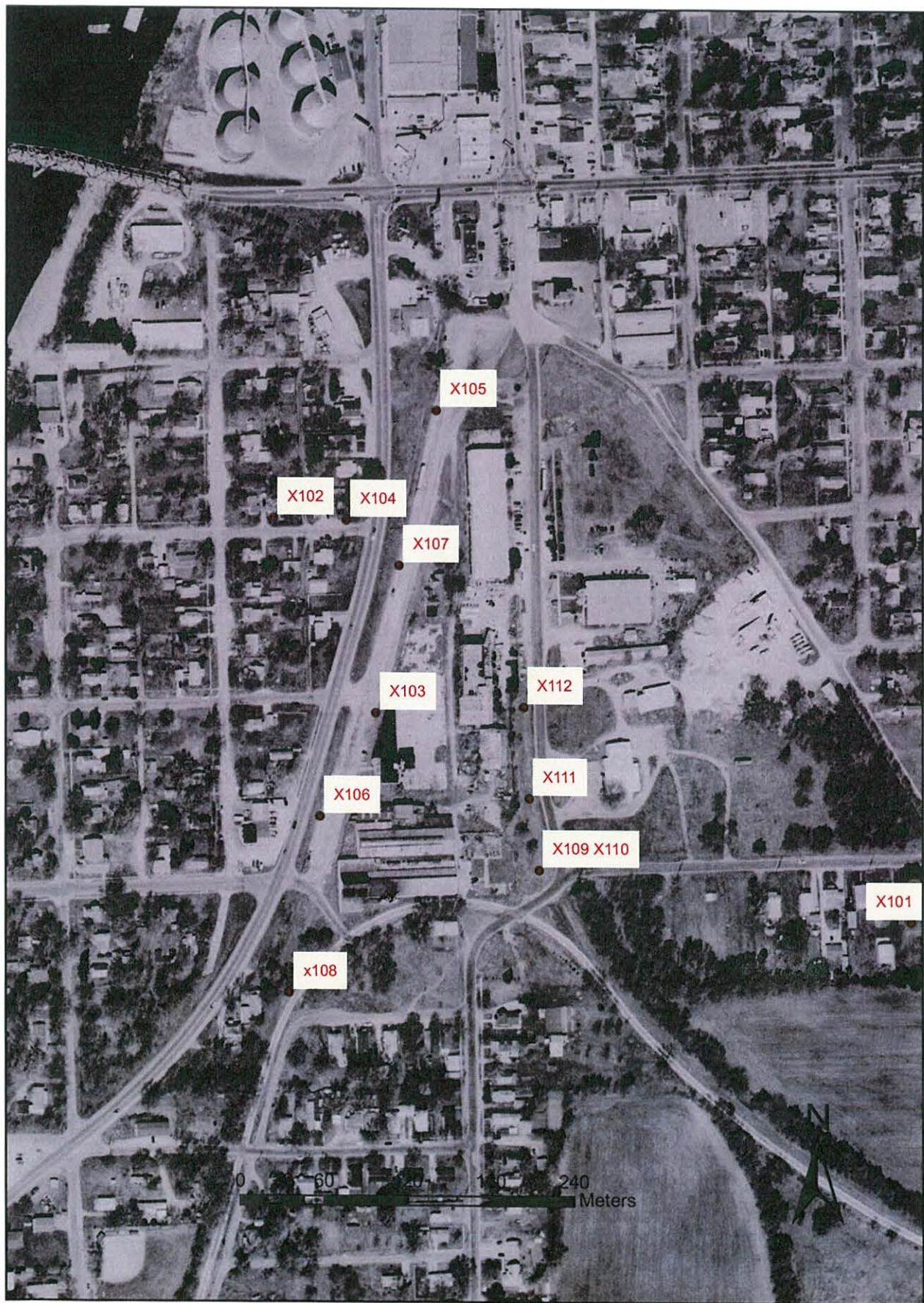


Figure 4b

Figure-4 Groundwater Location



Figure 4c

Figure-4 Residential Well Location

Non-Responsive

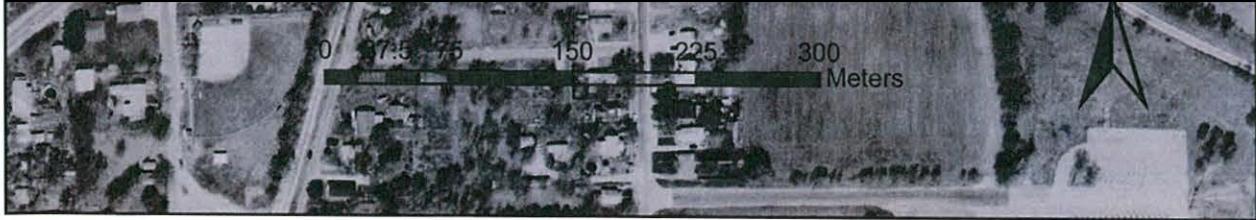


Figure 5

FIGURE 5

4 Mile Radius Map for Havana Right of Way

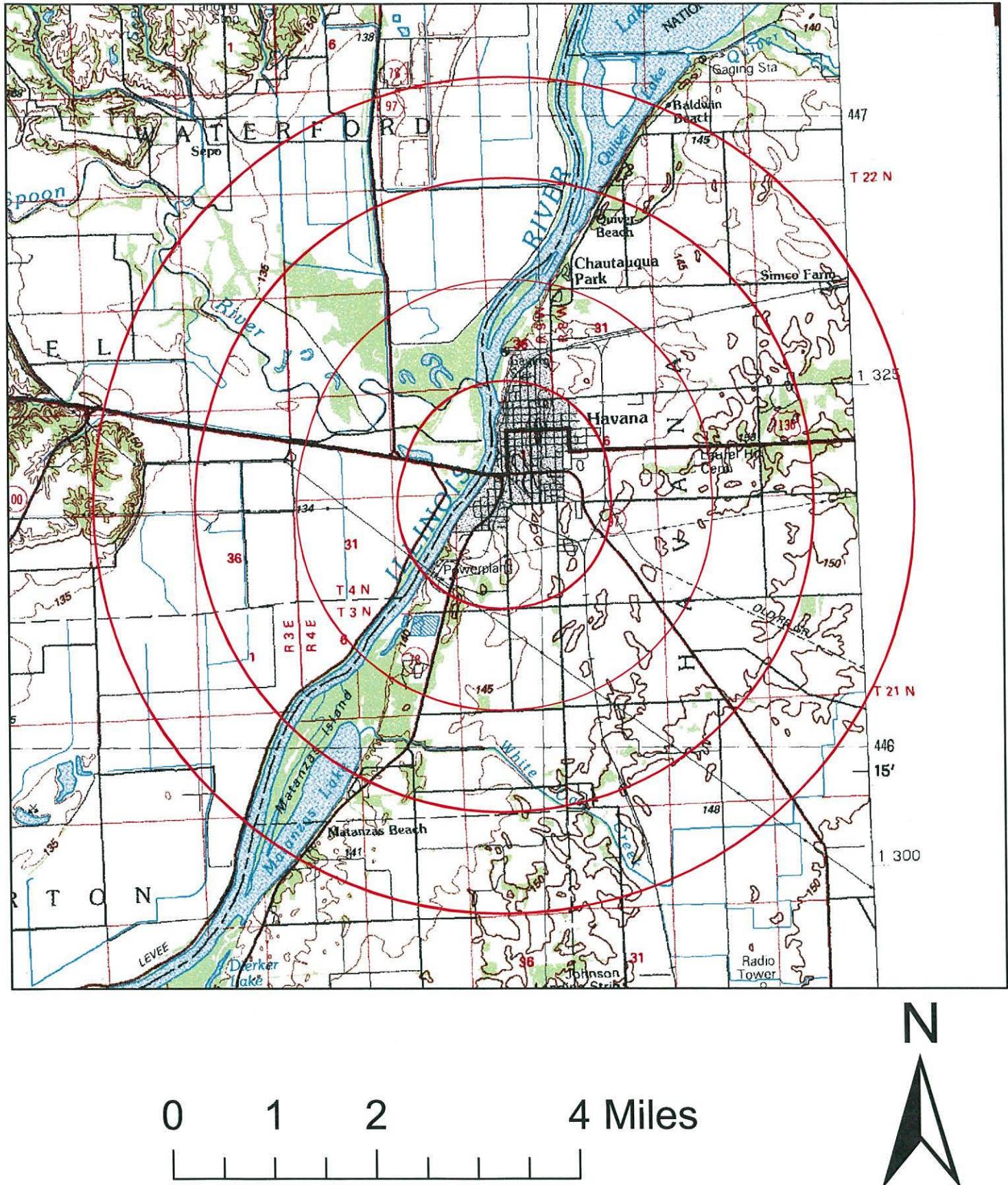


Figure 6

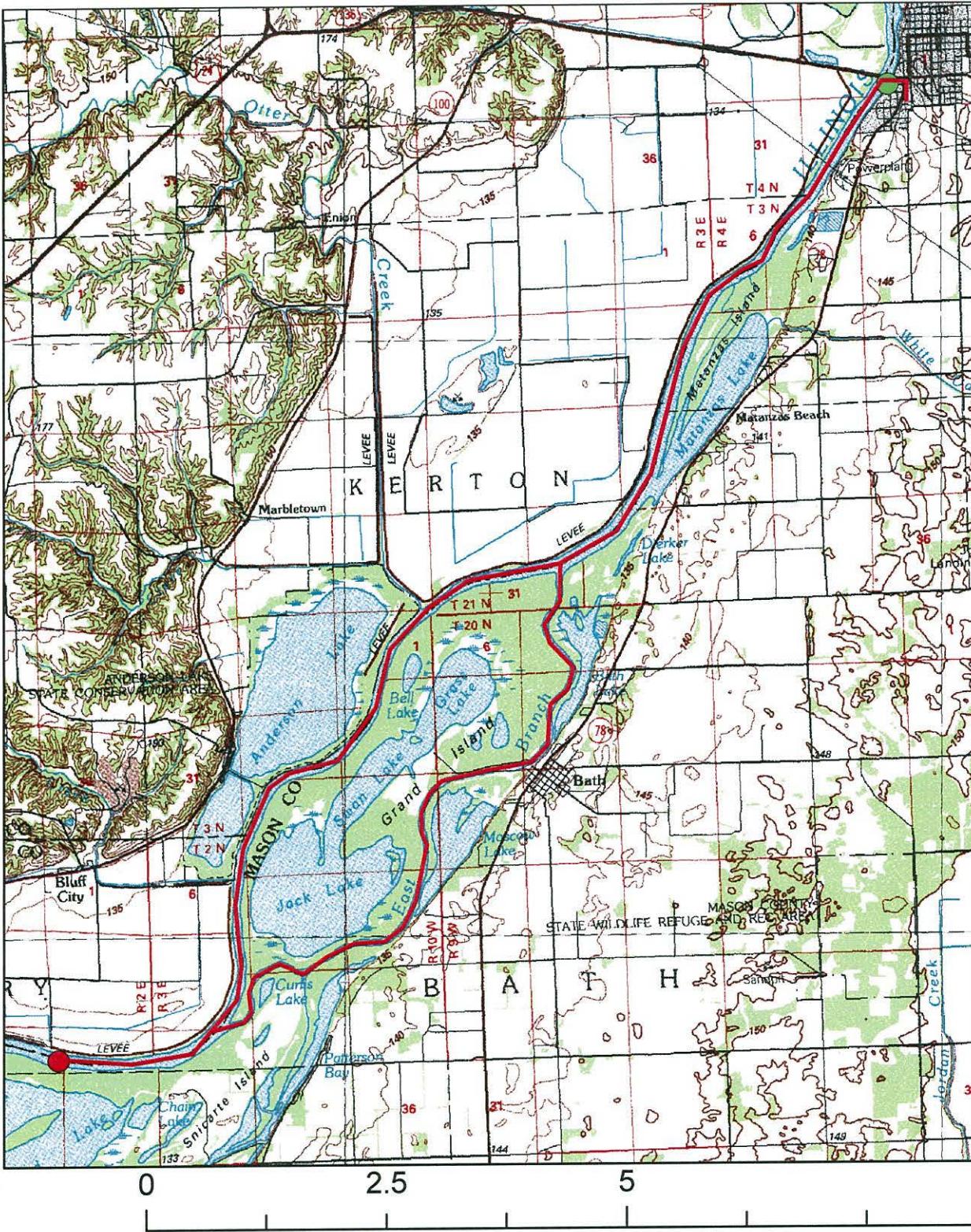


FIGURE 6

15-Mile In-Water Segment
of Surface Water Pathway

Havana Right of Way

Legend

- Probable Point of Entry
- 15-Mile Target Distance Limit
- In-Water Segment



10 Miles

TABLE 1
Havana Right of Way
Well Water Analytical Results
Volatiles

Sample Number :	E0091				E0090				E0095		E0096	
Sampling Location :	G202				G201				G203		G204	
Matrix :	Water		3 times background		Water				Water		Water	
Units :	ug/L				ug/L				ug/L		ug/L	
Dilution Factor :	1.0				1.0				1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.00	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Carbon Disulfide	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.00	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.00	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U

TABLE 1
Havana Right of Way
Well Water Analytical Results
Volatiles

Sample Number :	E0091		3 times background		E0090		E0095		E0096	
Sampling Location :	G202				G201		Water		G203	
Matrix :	Water				ug/L		Water		ug/L	
Units :	ug/L				1.0		ug/L		1.0	
Dilution Factor :	1.0				1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
2-Hexanone	5.00	U	15		5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
Styrene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	1.5		0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	1.5		0.50	U	0.50	U	0.50	U

TABLE 1
Havana Right of Way
Well Water Analytical Results
Volatiles

Sample Number :	E00A4		E0088		VBLK1D		VBLKKF			
Sampling Location :	G205		TB1		Water 1.0		Water 1.0			
Matrix :	Water		Water		Water		Water			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U		
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Acetone	5.0	U	5.0	U	5.0	U	5.0	U		
Carbon Disulfide	0.50	U	0.50	U	0.50	U	0.50	U		
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U		
Methylene chloride	0.50	U	0.13	J	0.50	U	0.50	U		
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U		
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U		
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U		
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U		
Benzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Trichloroethene	2.0		0.50	U	0.50	U	0.50	U		
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U		
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U		
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U		
Toluene	0.14	J	0.50	U	0.50	U	0.20	J		
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		

TABLE 1
Havana Right of Way
Well Water Analytical Results
Volatiles

Sample Number :	E00A4		E0088		VBLK1D		VBLKKF			
Sampling Location :	G205		TB1		Water		Water			
Matrix :	Water		Water		ug/L		ug/L			
Units :	ug/L		ug/L		ug/L		ug/L			
Dilution Factor :	1.0		1.0		1.0		1.0			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
Tetrachloroethene	0.62		0.50	U	0.50	U	0.50	U		
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U		
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
Ethylbenzene	0.11	J	0.50	U	0.50	U	0.50	U		
o-Xylene	0.31	J	0.50	U	0.50	U	0.50	U		
m,p-Xylene	0.34	J	0.50	U	0.50	U	0.50	U		
Styrene	0.32	J	0.50	U	0.50	U	0.50	U		
Bromoform	0.50	UJ	0.50	U	0.50	U	0.50	U		
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		

TABLE 2
Havana Right of Way
Well Water Analytical Results
SVOC

Sample Number :	E0091 G202		3 times background		E0090 G201		E0095 G203		E0096 G204		E00A4 G205	
Sampling Location :	Matrix :	Water ug/L	pH :	Dilution Factor :	Water ug/L	Water ug/L						
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-Chloroethyl)ether	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	UJ
2-Chloronaphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10.0	U	30		10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10.0	U	30		10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U

TABLE 2
Havana Right of Way
Well Water Analytical Results
SVOC

Sample Number :	E0091 G202		3 times background		E0090 G201		E0095 G203		E0096 G204		E00A4 G205	
Sampling Location :												
Matrix :	Water				Water				Water			
Units :	ug/L				ug/L				ug/L			
pH :	7.6				7.3				7.5			
Dilution Factor :	1.0				1.0				1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10.0	U	30		10	U	10	U	10	U	10	U
4-Nitrophenol	10.0	U	30		10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10.0	U	30		10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10.0	U	30		10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10.0	U	30		10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phthalate	2.5	J	7.5		5.0	U	7.0		5.0	U	1.3	J
Di-n-octylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U	5.0	U

TABLE 3
Havana Right of Way
Well Water Analytical Results
SVOC SIM

Sample Number :	E0091				E0090		E0095		E0096		E00A4	
Sampling Location :	G202				G201		G203		G204		G205	
Matrix :	Water		3 times background		Water		Water		Water		Water	
Units :	ug/L				ug/L		ug/L		ug/L		ug/L	
pH :	7.6				7.3		7.5		7.2		7.2	
Dilution Factor :	1.0				1.0		1.0		1.0		1.0	
Semivolatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
2-MethylNaphthalene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Acenaphthylene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Acenaphthene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	UJ
Fluorene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Pentachlorophenol	0.20	UJ	0.60		0.20	UJ	0.20	UJ	0.20	UJ	0.20	UJ
Phenanthrene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Anthracene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Fluoranthene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Pyrene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	UJ
Benzo(a)anthracene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Chrysene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Benzo(b)fluoranthene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Benzo(k)fluoranthene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Benzo(a)pyrene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Indeno(1,2,3-cd)pyrene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Dibenzo(a,h)anthracene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U
Benzo(g,h,i)perylene	0.10	U	0.30		0.10	U	0.10	U	0.10	U	0.10	U

TABLE 4
Havana Right of Way
Well Water Analytical Results
Pesticides

Sample Number :	E0091 G202		3 times background		E0090 G201		E0095 G203		E0096 G204		E00A4 G205	
Sampling Location :	Water	ug/L	Water	ug/L	Water	ug/L	Water	ug/L	Water	ug/L	Water	ug/L
Matrix :												
Units :												
pH :	7.6		7.3		7.5		7.2		7.2		7.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.500	U	1.5		0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.100	U	0.3		0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.15		0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.00	U	15		5.0	U	5.0	U	5.0	U	5.0	U

TABLE 5
Havana Right of Way
Well Water Analytical Results
PCBs

Sample Number :	E0091 G202	3 times background		E0090 G201	Water ug/L		E0095 G203	Water ug/L		E0096 G204	Water ug/L	
Sampling Location :	Matrix :	Units :	pH :	Dilution Factor :								
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1221	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1262	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U

TABLE 6
Havana Right of Way
Well Water Analytical Results
Metals

Sample Number :	ME0091			ME0090		ME0095		ME0096		ME00A4		ME00A4D
Sampling Location :	G202			G201		G203		G204		G205		G205
Matrix :	Water			Water								
Units :	ug/L			ug/L								
Date Sampled :	4/28/2008			4/28/2008		4/28/2008		4/28/2008		4/29/2008		4/29/2008
Time Sampled :												
%Solids :	0.0			0.0		0.0		0.0		0.0		0.0
Dilution Factor :	1.0			1.0		1.0		1.0		1.0		1.0
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM												
ANTIMONY	0.15	UJ	0.45		0.26	UJ	0.090		0.11	UJ	0.090	
ARSENIC	1.7		5.1		0.82	UJ	0.63	UJ	0.77	UJ	0.59	UJ
BARIUM	20.4		61.2		20.8		27.1		26.4		44.2	
BERYLLIUM	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	0.060	UJ	0.18		0.070	UJ	0.10	UJ	0.090	UJ	0.030	UJ
CALCIUM												
CHROMIUM	0.29	UJ	0.87		0.85	UJ	1.3	UJ	1.3	UJ	0.86	UJ
COBALT	0.20	UJ	0.6		0.36	UJ	0.23	UJ	0.22	UJ	0.30	UJ
COPPER	0.35	UJ	1.05		9.0		19.0		18.9		6.0	
IRON												
LEAD	0.34	UJ	1.02		1.3		7.8		8.9		0.84	UJ
MANGANESE	224		672		13.8		4.1		3.5		2.1	
MERCURY	0.030	U	0.09		0.025	U	0.031	U	0.025	U	0.058	U
NICKEL	1.1		3.3		1.5		1.5		1.4		2.4	
POTASSIUM												
SELENIUM	0.51	UJ	1.53		0.73	UJ	1.2	UJ	1.3	UJ	0.98	UJ
SILVER	0.050	UJ	0.15		0.090	UJ	0.050	UJ	0.16	UJ	0.060	UJ
SODIUM												
THALLIUM	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	15.0		1.0	U	0.81	UJ	0.66	UJ	0.61	UJ
ZINC	61.1		183.3		130		200		175		851	
CYANIDE	10.0	U	30.0		10.0	U	10.0	U	10.0	U	10.0	U

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E0092		3 times background		E0098		E00A2		E00A5	
Sampling Location :	G101				G102		FB <td data-kind="ghost"></td> <td data-cs="2" data-kind="parent">G103</td> <td data-kind="ghost"></td>		G103	
Matrix :	Water				Water		Water		Water	
Units :	ug/L				ug/L		ug/L		ug/L	
Dilution Factor :	1.0				1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	15		5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	15		5.0	UJ	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-tr	5.0	U	15		5.0	UJ	5.0	U	5.0	U
Acetone	10.0	U	30		10	U	10	U	10	U
Carbon Disulfide	5.0	U	15		5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	15		5.0	UJ	5.0	U	5.0	U
Methylene chloride	5.0	U	15		5.0	UJ	5.0	U	5.0	U
trans-1,2-Dichloroethe	5.0	U	15		5.0	U	5.0	U	0.94	J
Methyl tert-butyl ether	5.0	U	15		5.0	UJ	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	15		5.0	U	5.0	U	5.3	
cis-1,2-Dichloroethene	5.0	U	15		5.0	U	5.0	U	84	
2-Butanone	10.0	U	30		10	U	10	U	10	U
Bromochloromethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	15		5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	15		5.0	UJ	5.0	U	45	
Cyclohexane	5.0	U	15		5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	15		5.0	UJ	5.0	U	5.0	U
Benzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	15		5.0	UJ	5.0	U	5.0	U
1,4-Dioxane	100.0	U	300		100	U	100	U	100	U
Trichloroethene	5.0	U	15		5.0	U	5.0	U	14	
Methylcyclohexane	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	15		5.0	U	5.0	U	5.0	U
Bromodichloromethan	5.0	U	15		5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropen	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	10.0	U	30		10	U	10	U	10	U
Toluene	5.0	U	15		5.0	U	5.0	U	5.0	U
trans-1,3-Dichloroprop	5.0	U	15		5.0	U	5.0	U	5.0	U

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E0092		3 times background		E0098		E00A2		E00A5	
Sampling Location :	G101				G102		FB		G103	
Matrix :	Water				Water		Water		Water	
Units :	ug/L				ug/L		ug/L		ug/L	
Dilution Factor :	1.0				1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	15		5.0	U	5.0	U	260	
2-Hexanone	10.0	U	30		10	U	10	U	10	U
Dibromochloromethan	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	15		5.0	UJ	5.0	U	5.0	U
Chlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	15		5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	15		5.0	U	5.0	U	5.0	U
Styrene	5.0	U	15		5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	15		5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroeth	5.0	U	15		5.0	UJ	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chlorop	5.0	U	15		5.0	UJ	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E00A5DL	E00B0		E00B1		E0094			
Sampling Location :	G103	G104		G105		TB2			
Matrix :	Water	Water		Water		Water			
Units :	ug/L	ug/L		ug/L		ug/L			
Dilution Factor :	2.0	1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	
Dichlorodifluoromethane	10	U	5.0	U	5.0	U	5.0	U	
Chloromethane	10	U	5.0	U	5.0	U	5.0	U	
Vinyl chloride	10	U	5.0	U	5.0	U	5.0	U	
Bromomethane	10	U	5.0	U	5.0	U	5.0	U	
Chloroethane	10	U	5.0	U	5.0	U	5.0	U	
Trichlorofluoromethane	10	U	5.0	U	5.0	U	5.0	UJ	
1,1-Dichloroethene	10	U	5.0	U	5.0	U	5.0	U	
1,1,2-Trichloro-1,2,2-tr	10	U	5.0	U	5.0	U	5.0	UJ	
Acetone	20	U	10	U	10	U	10	U	
Carbon Disulfide	10	U	5.0	U	5.0	U	5.0	U	
Methyl acetate	10	U	5.0	U	5.0	U	5.0	UJ	
Methylene chloride	10	U	5.0	U	5.0	U	5.0	UJ	
trans-1,2-Dichloroether	0.88	J	5.0	U	5.0	U	5.0	U	
Methyl tert-butyl ether	10	U	5.0	U	5.0	U	5.0	UJ	
1,1-Dichloroethane	4.0	J	5.0	U	5.0	U	5.0	U	
cis-1,2-Dichloroethene	68		5.0	U	5.0	U	5.0	U	
2-Butanone	20	U	10	U	10	U	10	U	
Bromochloromethane	10	U	5.0	U	5.0	U	5.0	U	
Chloroform	10	U	5.0	U	5.0	U	5.0	U	
1,1,1-Trichloroethane	30		5.0	U	5.0	U	5.0	UJ	
Cyclohexane	10	U	5.0	U	5.0	U	5.0	U	
Carbon tetrachloride	10	U	5.0	U	5.0	U	5.0	UJ	
Benzene	10	U	5.0	U	5.0	U	5.0	U	
1,2-Dichloroethane	10	U	5.0	U	5.0	U	5.0	UJ	
1,4-Dioxane	200	U	100	U	100	U	100	U	
Trichloroethene	11		5.0	U	5.0	U	5.0	U	
Methylcyclohexane	10	U	5.0	U	5.0	U	5.0	U	
1,2-Dichloropropane	10	U	5.0	U	5.0	U	5.0	U	
Bromodichloromethan	10	U	5.0	U	5.0	U	5.0	U	
cis-1,3-Dichloropropen	10	U	5.0	U	5.0	U	5.0	U	
4-Methyl-2-pentanone	20	U	10	U	10	U	10	U	
Toluene	10	U	5.0	U	5.0	U	5.0	U	
trans-1,3-Dichloroprop	10	U	5.0	U	5.0	U	5.0	U	

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E00A5DL	E00B0	E00B1	E0094						
Sampling Location :	G103	G104	G105	TB2						
Matrix :	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L						
Dilution Factor :	2.0	1.0	1.0	1.0						
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
1,1,2-Trichloroethane	10	U	5.0	U	5.0	U	5.0	U		
Tetrachloroethene	190		5.0	U	5.0	U	5.0	U		
2-Hexanone	20	U	10	U	10	U	10	U		
Dibromochloromethan	10	U	5.0	U	5.0	U	5.0	U		
1,2-Dibromoethane	10	U	5.0	U	5.0	U	5.0	UJ		
Chlorobenzene	10	U	5.0	U	5.0	U	5.0	U		
Ethylbenzene	10	U	5.0	U	5.0	U	5.0	U		
o-Xylene	10	U	5.0	U	5.0	U	5.0	U		
m,p-Xylene	10	U	5.0	U	5.0	U	5.0	U		
Styrene	10	U	5.0	U	5.0	U	5.0	U		
Bromoform	10	U	5.0	U	5.0	U	5.0	U		
Isopropylbenzene	10	U	5.0	U	5.0	U	5.0	U		
1,1,2,2-Tetrachloroeth	10	U	5.0	U	5.0	U	5.0	U		
1,3-Dichlorobenzene	10	U	5.0	U	5.0	U	5.0	U		
1,4-Dichlorobenzene	10	U	5.0	U	5.0	U	5.0	U		
1,2-Dichlorobenzene	10	U	5.0	U	5.0	U	5.0	U		
1,2-Dibromo-3-chlorop	10	U	5.0	U	5.0	U	5.0	U		
1,2,4-Trichlorobenzene	10	U	5.0	U	5.0	U	5.0	U		
1,2,3-Trichlorobenzene	10	U	5.0	U	5.0	U	5.0	U		

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E00B4	E00B7		VBLK08		VBLK09		VHBLK01	
Sampling Location :	TB3	G106		Water		Water		Water	
Matrix :	Water	ug/L		Water		ug/L		ug/L	
Units :	ug/L	1.0		1.0		1.0		1.0	
Dilution Factor :	1.0	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U		5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U		5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U		5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U		5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U		5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U		5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U		5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-tr	5.0	U		5.0	U	5.0	U	5.0	U
Acetone	10	U		10	U	10	U	10	U
Carbon Disulfide	5.0	U		5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U		5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U		5.0	U	2.5	J	2.1	J
trans-1,2-Dichloroethe	5.0	U		5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U		5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U		5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U		5.0	U	5.0	U	5.0	U
2-Butanone	10	U		10	U	10	U	10	U
Bromochloromethane	5.0	U		5.0	U	5.0	U	5.0	U
Chloroform	5.0	U		5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U		5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U		5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U		5.0	U	5.0	U	5.0	U
Benzene	5.0	U		5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U		5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	U		100	U	100	U	100	U
Trichloroethene	5.0	U		5.0	U	5.0	U	1.3	J
Methylcyclohexane	5.0	U		5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U		5.0	U	5.0	U	5.0	U
Bromodichloromethan	5.0	U		5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropen	5.0	U		5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	10	U		10	U	10	U	10	U
Toluene	5.0	U		5.0	U	5.0	U	5.0	U
trans-1,3-Dichloroprop	5.0	U		5.0	U	5.0	U	5.0	U

TABLE 7
Havana Right of Way
Ground Water Analytical Results
VOCs

Sample Number :	E00B4		E00B7		VBLK08		VBLK09		VHBLK01	
Sampling Location :	TB3		G106		Water		Water		Water	
Matrix :	Water		Water		ug/L		ug/L		ug/L	
Units :	ug/L		ug/L		1.0		1.0		1.0	
Dilution Factor :	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethan	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	1.4	J	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroeth	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chlorop	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	1.1	J	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	1.5	J	5.0	U

TABLE 8
Havana Right of Way
Ground Water Analytical Results
SVOCs

Sample Number :	E0092 G101		3 times background		E0098 G102		E00A2 FB		E00A5 G103	
Matrix :	Water				Water		Water		Water	
Units :	ug/L				ug/L		ug/L		ug/L	
pH :	7.6				7.6		3.8		7.2	
Dilution Factor :	1.0				1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	15		5.0	U	5.0	U	5.0	U
Phenol	5.0	U	15		5.0	U	5.0	U	5.0	U
Bis(2-Chloroethyl)ether	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	15		5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	15		5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	15		5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	15		5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	15		5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	15		5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	15		5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	15		5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	15		5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	15		5.0	U	5.0	U	5.0	U
2-Nitroaniline	10.0	U	30		10	U	10	U	10	U
Dimethylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	15		5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	15		5.0	U	5.0	U	5.0	U
3-Nitroaniline	10.0	U	30		10	U	10	U	10	U
Acenaphthene	5.0	U	15		5.0	U	5.0	U	5.0	U

TABLE 8
Havana Right of Way
Ground Water Analytical Results
SVOCs

Sample Number :	E0092				E0098		E00A2		E00A5	
Sampling Location :	G101		3 times background		G102		FB		G103	
Matrix :	Water				Water		Water		Water	
Units :	ug/L				ug/L		ug/L		ug/L	
pH :	7.6				7.6		3.8		7.2	
Dilution Factor :	1.0				1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10.0	U	30		10	U	10	U	10	U
4-Nitrophenol	10.0	U	30		10	U	10	U	10	U
Dibenzofuran	5.0	U	15		5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	15		5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenyl	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Nitroaniline	10.0	U	30		10	U	10	U	10	U
4,6-Dinitro-2-methylph	10.0	U	30		10	U	10	U	10	U
N-Nitrosodiphenylamini	5.0	U	15		5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachloroben	5.0	U	15		5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenyl	5.0	U	15		5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	15		5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	15		5.0	U	5.0	U	5.0	U
Pentachlorophenol	10.0	U	30		10	U	10	U	10	U
Phenanthrone	5.0	U	15		5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	15		5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	15		5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	15		5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	15		5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	15		5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	15		5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phtha	5.0	U	15		5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	15		5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	15		5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	15		5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyren	5.0	U	15		5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracen	5.0	U	15		5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	15		5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophe	5.0	U	15		5.0	U	5.0	U	5.0	U

TABLE 8
Havana Right of Way
Ground Water Analytical Results
SVOCs

Sample Number :	SBLK5C	E00B0 G104		E00B1 G105		E00B7		SBLK5B		
Sampling Location :		Water	ug/L	Water	ug/L	Water	ug/L	Water	ug/L	
Matrix :										
Units :										
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-Chloroethyl)ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

TABLE 8
Havana Right of Way
Ground Water Analytical Results
SVOCs

Sample Number :	SBLK5C		E00B0 G104		E00B1 G105		E00B7 Water ug/L		SBLK5B Water ug/L	
Sampling Location :										
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
pH :	7.5		7.5		7.4		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylph	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamir	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorober	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phtha	10		5.0	U	5.0	U	1.4	J	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyren	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracen	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachloropho	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

TABLE 9
Havana Right of Way
Ground Water Analytical Results
Pesticides

Sample Number :	E0092			E0098		E00A2		E00A5		
Sampling Location :	G101			G102		FB		G103		
Matrix :	Water			Water		Water		Water		
Units :	ug/L			ug/L		ug/L		ug/L		
Date Sampled :	4/28/2008			4/28/2008		4/29/2008		4/29/2008		
Time Sampled :										
%Moisture :	N/A			N/A		N/A		N/A		
pH :	7.6			7.6		3.8		7.2		
Dilution Factor :	1.0			1.0		1.0		1.0		
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.150		0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.150		0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.150		0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Dieldrin	0.100	U	0.300		0.10	U	0.10	U	0.10	U
4,4'-DDE	0.100	U	0.300		0.10	U	0.10	U	0.10	U
Endrin	0.100	U	0.300		0.10	U	0.10	U	0.10	U
Endosulfan II	0.100	U	0.300		0.10	U	0.10	U	0.10	U
4,4'-DDD	0.100	U	0.300		0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.100	U	0.300		0.10	U	0.10	U	0.10	U
4,4'-DDT	0.100	U	0.300		0.10	U	0.10	U	0.10	U
Methoxychlor	0.500	U	1.500		0.50	U	0.50	U	0.50	U
Endrin ketone	0.100	U	0.300		0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.100	U	0.300		0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.150		0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.150		0.050	U	0.050	U	0.050	U
Toxaphene	5.000	U	15.000		5.0	U	5.0	U	5.0	U

TABLE 9
Havana Right of Way
Ground Water Analytical Results
Pesticides

Sample Number :	PBLK8W	E00B0	G104	E00B1	G105	E00B7		
Sampling Location :		Water	Water	Water	Water	Water		
Matrix :	Water	ug/L	ug/L	ug/L	ug/L	ug/L		
Units :								
Date Sampled :		4/29/2008		4/29/2008				
Time Sampled :								
%Moisture :	0	N/A		N/A		N/A		
pH :		7.5		7.5		7.4		
Dilution Factor :	1.0	1.0		1.0		1.0		
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U

TABLE 10
Havana Right of Way
Ground Water Analytical Results
PCBs

Sample Number :	E0092			E0098		E00A2		E00A5		
Sampling Location :	G101			G102		FB		G103		
Matrix :	Water			Water		Water		Water		
Units :	ug/L			ug/L		ug/L		ug/L		
Date Sampled :	4/28/2008			4/28/2008		4/29/2008		4/29/2008		
Time Sampled :										
%Moisture :	N/A			N/A		N/A		N/A		
pH :	7.6			7.6		3.8		7.2		
Dilution Factor :	1.0			1.0		1.0		1.0		
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	3.0		1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	3.0		1.0	U	1.0	U	1.0	U

TABLE 10
Havana Right of Way
Ground Water Analytical Results
PCBs

Sample Number :	E00B0	E00B1	E00B7								
Sampling Location :	G104	G105									
Matrix :	Water	Water	Water								
Units :	ug/L	ug/L	ug/L								
Date Sampled :	4/29/2008	4/29/2008									
Time Sampled :											
%Moisture :	N/A	N/A	N/A								
pH :	7.5	7.5	7.4								
Dilution Factor :	1.0	1.0	1.0								
ANALYTE	Result	Flag	Result	Flag	Result	Flag					
Aroclor-1016	1.0	U	1.0	U	1.0	U					
Aroclor-1221	1.0	U	1.0	U	1.0	U					
Aroclor-1232	1.0	U	1.0	U	1.0	U					
Aroclor-1242	1.0	U	1.0	U	1.0	U					
Aroclor-1248	1.0	U	1.0	U	1.0	U					
Aroclor-1254	1.0	U	1.0	U	1.0	U					
Aroclor-1260	1.0	U	1.0	U	1.0	U					
Aroclor-1262	1.0	U	1.0	U	1.0	U					
Aroclor-1268	1.0	U	1.0	U	1.0	U					

TABLE 11
Havana Right of Way
Ground Water Analytical Results
Metals

Sample Number :	ME0092	ME0093		ME00A5		ME00A6				
Sampling Location :	G101	G101F		G103		G103F				
Matrix :	Water	Water		Water		Water				
Units :	ug/L	ug/L		ug/L		ug/L				
Date Sampled :	4/28/2008	4/28/2008		4/29/2008		4/29/2008				
Time Sampled :			3 times background							
%Solids :	0.0	0.0		0.0		0.0				
Dilution Factor :	1.0	1.0		1.0		1.0				
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
ALUMINUM	207	J	222	U	666		222	U	222	U
ANTIMONY	66.7	U	66.7	U	200.1		66.7	U	66.7	U
ARSENIC	11.1	U	11.1	U	33.3		11.1	U	11.1	U
BARIUM	13.9	UJ	12.5	UJ	41.7		62.8	UJ	62.0	UJ
BERYLLIUM	5.6	U	5.6	U	16.8		5.6	U	5.6	U
CADMIUM	5.6	U	5.6	U	16.8		5.6	U	5.6	U
CALCIUM	65300		64100		195900		71200		70800	
CHROMIUM	1.3	UJ	0.48	UJ	3.9		0.42	UJ	0.43	UJ
COBALT	0.81	UJ	55.6	U	166.8		55.6	U	55.6	U
COPPER	27.8	U	27.8	U	83.4		27.8	U	27.8	U
IRON	508	J	83.1	J	1524		228	J	146	J
LEAD	2.9	J	1.8	J	8.7		1.8	J	11.1	U
MAGNESIUM	23600		23300		70800		22500		22400	
MANGANESE	86.4		72.6		259.2		95.1		93.8	
MERCURY	0.2	U	0.2	U	0.6		0.20	U	0.20	U
NICKEL	2.1	J	44.4	U	133.2		1.2	J	1.1	J
POTASSIUM	1490	J	1350	J	4470		6650		6640	
SELENIUM	38.9	U	38.9	U	116.7		38.9	U	3.8	J
SILVER	3.2	UJ	4	UJ	12		3.0	UJ	2.9	J
SODIUM	6250		6310		18930		8000		7930	
THALLIUM	27.8	U	27.8	U	83.4		27.8	U	27.8	U
VANADIUM	1.4	UJ	55.6	U	166.8		55.6	U	55.6	U
ZINC	7	J	66.7	U	200.1		66.7	U	66.7	U
CYANIDE	10	U	10	U	30		10.0	U	10.0	U

TABLE 11
Havana Right of Way
Ground Water Analytical Results
Metals

Sample Number :	ME00B2	ME00B3	ME00B7	ME00C0	ME00B0					
Sampling Location :	G104F	G105F	G106	G106F	G104					
Matrix :	Water	Water	Water	Water	Water					
Units :	ug/L	ug/L	ug/L	ug/L	ug/L					
Date Sampled :	4/29/2008	4/29/2008	4/29/2008	4/29/2008	4/29/2008					
Time Sampled :										
%Solids :	0.0	0.0	0.0	0.0	0.0					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
ALUMINUM	222	U	222	U	956		222	U	6910	
ANTIMONY	66.7	U	66.7	U	2.1	J	3.2	J	2.1	J
ARSENIC	11.1	U	11.1	U	11.1	U	11.1	U	4.7	J
BARIUM	21.9	UJ	21.6	UJ	23.9	UJ	15.9	J	56.5	UJ
BERYLLIUM	5.6	U	5.6	U	5.6	U	5.6	U	0.23	J
CADMIUM	5.6	U	5.6	U	0.14	UJ	5.6	U	0.26	UJ
CALCIUM	75000		74700		78500		67300		92500	
CHROMIUM	0.76	UJ	0.74	UJ	5.4	UJ	0.48	UJ	16.8	
COBALT	55.6	U	0.72	UJ	5.9	UJ	3.0	UJ	10.2	UJ
COPPER	27.8	U	27.8	U	5.5	J	27.8	U	15.4	J
IRON	19.3	J	43.8	J	2730	J	27.1	J	10500	J
LEAD	11.1	U	11.1	U	4.0	J	11.1	U	12.6	
MAGNESIUM	24300		24300		26800		22600		33400	
MANGANESE	39.3		43.1		369		186		361	
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	1.3	J	1.2	J	9.3	J	3.4	J	18.2	J
POTASSIUM	1690	J	1690	J	1820	J	1330	J	4650	J
SELENIUM	38.9	U	38.9	U	38.9	U	2.4	U	38.9	U
SILVER	4.7	J	3.7	J	3.8	J	1.4	J	3.8	J
SODIUM	12800		12800		8530		8310		13000	
THALLIUM	27.8	U	27.8	U	27.8	U	27.8	U	27.8	U
VANADIUM	1.2	UJ	0.91	UJ	3.6	UJ	55.6	U	16.7	UJ
ZINC	4.7	J	5.0	J	23.2	J	3.8	J	60.4	J
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

TABLE 11
Havana Right of Way
Ground Water Analytical Results
Metals

Sample Number :	ME00B1	ME0098	ME0099	ME00A5D	ME00A2					
Sampling Location :	G105	G102	G102F	G103	FB					
Matrix :	Water	Water	Water	Water	Water					
Units :	ug/L	ug/L	ug/L	ug/L	ug/L					
Date Sampled :	4/29/2008	4/28/2008	4/28/2008	4/29/2008	4/29/2008					
Time Sampled :										
%Solids :	0.0	0.0	0.0	0.0	0.0					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
ALUMINUM	5080		1040		45.1	J	222	U	222	U
ANTIMONY	66.7	U	66.7	U	66.7	U	2.6	J	66.7	U
ARSENIC	5.3	J	11.1	U	11.1	U	11.1	U	11.1	U
BARIUM	51.1	UJ	43.5	UJ	34.0	UJ	62.1	J	222	U
BERYLLIUM	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U
CADMIUM	0.18	UJ	0.14	U	5.6	U	5.6	U	5.6	U
CALCIUM	97300		79200		75300		70400		5560	U
CHROMIUM	15.0		5.1	UJ	1.1	UJ	0.54	J	11.1	U
COBALT	11.1	UJ	7.5	UJ	2.1	UJ	55.6	U	55.6	U
COPPER	16.7	J	5.6	J	27.8	U	27.8	U	27.8	U
IRON	11200	J	2560	J	126	J	234		111	UJ
LEAD	10.2	J	6.8	J	1.2	U	2.3	J	1.7	J
MAGNESIUM	35300		28200		26400		22200		5560	U
MANGANESE	404		359		86.9		94.6		16.7	U
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	18.8	J	13.4	J	2.2	J	1.4	J	44.4	U
POTASSIUM	3770	J	9030		8570		6630		45.4	U
SELENIUM	38.9	U	4.1	J	2.5	U	38.9	U	38.9	U
SILVER	5.6	J	3.6	UJ	3.4	UJ	2.9	J	11.1	U
SODIUM	13200		22300		22100		7900		129	J
THALLIUM	27.8	U	27.8	U	27.8	U	27.8	U	27.8	U
VANADIUM	13.4	UJ	4.6	UJ	0.90	U	55.6	U	55.6	U
ZINC	64.1	J	21.7	J	2.7	J	2.8	J	66.7	U
CYANIDE	10.0	U	10.0	U	10.0	U			10.0	U

TABLE 12
Havana Right of Way
Soil Analytical Results
VOCs

Sample Number :	E0087	Sampling Location :	X101	Matrix :	Soil	Units :	ug/Kg	Date Sampled :	4/28/2008	Time Sampled :		%Moisture :	8	pH :		Dilution Factor :	1.0	3 times background	E00A1	E00A3	E00B9
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag					
Dichlorodifluoromethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Chloromethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Vinyl chloride	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Bromomethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Chloroethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Trichlorofluoromethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
1,1-Dichloroethene	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
1,1,2-Trichloro-1,2,2-tr	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Acetone	9.6	U	28.8		11	U	15	U	10	U											
Carbon Disulfide	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Methyl acetate	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Methylene chloride	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
trans-1,2-Dichloroethene	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Methyl tert-butyl ether	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
1,1-Dichloroethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
cis-1,2-Dichloroethene	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
2-Butanone	9.6	U	28.8		11	U	15	U	10	U											
Bromochloromethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Chloroform	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
1,1,1-Trichloroethane	4.8	U	14.4		3.4	J	7.7	U	5.2	U											
Cyclohexane	4.8	UJ	14.4		5.5	U	7.7	U	5.2	U											
Carbon tetrachloride	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Benzene	4.8	UJ	14.4		5.5	U	7.7	U	5.2	U											
1,2-Dichloroethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
1,4-Dioxane	96	U	288		110	U	150	U	100	U											
Trichloroethene	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
Methylcyclohexane	4.8	UJ	14.4		5.5	U	7.7	U	5.2	U											
1,2-Dichloropropane	4.8	UJ	14.4		5.5	U	7.7	U	5.2	U											
Bromodichloromethan	4.8	UJ	14.4		5.5	U	7.7	U	5.2	U											
cis-1,3-Dichloropropen	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
4-Methyl-2-pentanone	9.6	U	28.8		11	U	15	U	10	U											
Toluene	4.8	U	14.4		5.5	U	7.7	U	5.2	U											
trans-1,3-Dichloroprop	4.8	U	14.4		5.5	U	7.7	U	5.2	U											

TABLE 12
Havana Right of Way
Soil Analytical Results
VOCs

Sample Number :	E0087				E00A1		E00A3		E00B9	
Sampling Location :	X101				X103		X105		X112	
Matrix :	Soil				Soil		Soil		Soil	
Units :	ug/Kg				ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/28/2008				4/28/2008		4/29/2008		4/30/2008	
Time Sampled :										
%Moisture :	8				11		11		7	
pH :										
Dilution Factor :	1.0				1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Tetrachloroethene	4.8	U	14.4		46		7.7	U	5.2	U
2-Hexanone	9.6	U	28.8		11	U	15	U	10	U
Dibromochloromethan	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,2-Dibromoethane	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Chlorobenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Ethylbenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
o-Xylene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
m,p-Xylene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Styrene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Bromoform	4.8	U	14.4		5.5	U	7.7	U	5.2	U
Isopropylbenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,1,2,2-Tetrachloroeth	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,3-Dichlorobenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,4-Dichlorobenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,2-Dichlorobenzene	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,2-Dibromo-3-chlorop	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,2,4-Trichlorobenzen	4.8	U	14.4		5.5	U	7.7	U	5.2	U
1,2,3-Trichlorobenzen	4.8	U	14.4		5.5	U	7.7	U	5.2	U

TABLE 12
Havana Right of Way
Soil Analytical Results
VOCs

Sample Number :	E00A7	E00A8	E00B5	E00B6	E00B8					
Sampling Location :	X106	X107	X109	X110	X111					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg					
Date Sampled :	4/29/2008	4/29/2008	4/29/2008	4/29/2008	4/30/2008					
Time Sampled :										
%Moisture :	13	13	12	11	11					
pH :										
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Chloromethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Vinyl chloride	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Bromomethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Chloroethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Trichlorofluoromethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,1-Dichloroethene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,1,2-Trichloro-1,2,2-tr	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Acetone	16	U	11	U	14	U	12	U	13	U
Carbon Disulfide	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Methyl acetate	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Methylene chloride	8.0	U	15		26	J	18		6.4	U
trans-1,2-Dichloroethe	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Methyl tert-butyl ether	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,1-Dichloroethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
cis-1,2-Dichloroethene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
2-Butanone	16	U	11	U	14	U	12	U	13	U
Bromochloromethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Chloroform	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,1,1-Trichloroethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Cyclohexane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Carbon tetrachloride	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Benzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2-Dichloroethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,4-Dioxane	160	U	110	U	140	U	120	U	130	U
Trichloroethene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Methylcyclohexane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2-Dichloropropane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Bromodichloromethan	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
cis-1,3-Dichloropropen	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
4-Methyl-2-pentanone	16	U	11	U	14	U	12	U	13	U
Toluene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
trans-1,3-Dichloroprop	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U

TABLE 12
Havana Right of Way
Soil Analytical Results
VOCs

Sample Number :	E00A7	E00A8	E00B5	E00B6	E00B8					
Sampling Location :	X106	X107	X109	X110	X111					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg					
Date Sampled :	4/29/2008	4/29/2008	4/29/2008	4/29/2008	4/30/2008					
Time Sampled :										
%Moisture :	13	13	12	11	11					
pH :										
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Tetrachloroethene	8.0	U	5.7	U	1.7	J	1.6	J	6.4	U
2-Hexanone	16	U	11	U	14	U	12	U	13	U
Dibromochloromethan	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2-Dibromoethane	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Chlorobenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Ethylbenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
o-Xylene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
m,p-Xylene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Styrene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Bromoform	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
Isopropylbenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,1,2,2-Tetrachloroeth	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,3-Dichlorobenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,4-Dichlorobenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2-Dichlorobenzene	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2-Dibromo-3-chlorop	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2,4-Trichlorobenzen	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U
1,2,3-Trichlorobenzen	8.0	U	5.7	U	7.1	U	6.0	U	6.4	U

TABLE 13
Havana Right of Way
Soil Analytical Results
SVOCs

Sample Number :	E0087				E00A1		E00A3		E00A7		E00A8	
Sampling Location :	X101				X103		X105		X106		X107	
Matrix :	Soil				Soil		Soil		Soil		Soil	
Units :	ug/Kg				ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/28/2008				4/28/2008		4/29/2008		4/29/2008		4/29/2008	
Time Sampled :												
%Moisture :	8				11		11		13		13	
pH :	6.9				8.7		7.7		5.2		6.2	
Dilution Factor :	1.0				1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	180	U	540		190	U	190	U	190	U	200	U
Phenol	180	U	540		190	U	190	U	190	U	200	U
Bis(2-Chloroethyl)ether	180	U	540		190	U	190	U	190	U	200	U
2-Chlorophenol	180	U	540		190	U	190	U	190	U	200	U
2-Methylphenol	180	U	540		190	U	190	U	190	U	200	U
2,2'-Oxybis(1-chloropropane)	180	U	540		190	U	190	U	190	U	200	U
Acetophenone	180	U	540		190	U	190	U	190	U	200	U
4-Methylphenol	180	U	540		190	U	190	U	190	U	200	U
N-Nitroso-di-n-propylamine	180	U	540		190	U	190	U	190	U	200	U
Hexachloroethane	180	U	540		190	U	190	U	190	U	200	U
Nitrobenzene	180	U	540		190	U	190	U	190	U	200	U
Isophorone	180	U	540		190	U	190	U	190	U	200	U
2-Nitrophenol	180	U	540		190	U	190	U	190	U	200	U
2,4-Dimethylphenol	180	U	540		190	U	190	U	190	U	200	U
Bis(2-chloroethoxy)methane	180	U	540		190	U	190	U	190	U	200	U
2,4-Dichlorophenol	180	U	540		190	U	190	U	190	U	200	U
Naphthalene	180	U	540		190	U	56	J	100	J	200	U
4-Chloroaniline	180	U	540		190	U	190	U	190	U	200	U
Hexachlorobutadiene	180	U	540		190	U	190	U	190	U	200	U
Caprolactam	180	U	540		190	U	190	U	190	U	200	U
4-Chloro-3-methylphenol	180	U	540		190	U	190	U	190	U	200	U
2-Methylnaphthalene	180	U	540		61	J	180	J	200		71	J
Hexachlorocyclopentadiene	180	U	540		190	U	190	U	190	U	200	U
2,4,6-Trichlorophenol	180	U	540		190	U	190	U	190	U	200	U
2,4,5-Trichlorophenol	180	U	540		190	U	190	U	190	U	200	U
1,1'-Biphenyl	180	U	540		190	U	190	U	45	J	200	U
2-Chloronaphthalene	180	U	540		190	U	190	U	190	U	200	U
2-Nitroaniline	350	U	1050		370	U	370	U	370	U	380	U
Dimethylphthalate	180	U	540		190	U	190	U	190	U	200	U
2,6-Dinitrotoluene	180	U	540		190	U	190	U	190	U	200	U
Acenaphthylene	180	U	540		43	J	78	J	190	U	200	U
3-Nitroaniline	350	U	1050		370	U	370	U	370	U	380	U
Acenaphthene	180	U	540		190	U	190	U	190	U	200	U

TABLE 13
Havana Right of Way
Soil Analytical Results
SVOCs

Sample Number :	E0087			E00A1		E00A3		E00A7		E00A8		
Sampling Location :	X101			X103		X105		X106		X107		
Matrix :	Soil			Soil		Soil		Soil		Soil		
Units :	ug/Kg			ug/Kg		ug/Kg		ug/Kg		ug/Kg		
Date Sampled :	4/28/2008			4/28/2008		4/29/2008		4/29/2008		4/29/2008		
Time Sampled :												
%Moisture :	8			11		11		13		13		
pH :	6.9			8.7		7.7		5.2		6.2		
Dilution Factor :	1.0			1.0		1.0		1.0		1.0		
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	350	U	1050		370	U	370	U	370	U	380	U
4-Nitrophenol	350	U	1050		370	U	370	U	370	U	380	U
Dibenzofuran	180	U	540		190	U	60	J	190	U	200	U
2,4-Dinitrotoluene	180	U	540		190	U	190	U	190	U	200	U
Diethylphthalate	180	U	540		190	U	190	U	190	U	200	U
Fluorene	180	U	540		190	U	190	U	190	U	200	U
4-Chlorophenyl-pheny	180	U	540		190	U	190	U	190	U	200	U
4-Nitroaniline	350	U	1050		370	U	370	U	370	U	380	U
4,6-Dinitro-2-methylph	350	U	1050		370	U	370	U	370	U	380	U
N-Nitrosodiphenylamir	180	U	540		190	U	190	U	190	U	200	U
1,2,4,5-Tetrachlorober	180	U	540		190	U	190	U	190	U	200	U
4-Bromophenyl-pheny	180	U	540		190	U	190	U	190	U	200	U
Hexachlorobenzene	180	U	540		190	U	190	U	190	U	200	U
Atrazine	180	U	540		190	U	190	U	190	U	200	U
Pentachlorophenol	350	U	1050		370	U	370	U	370	U	380	U
Phenanthrene	180	U	540		230		330		160	J	180	J
Anthracene	180	U	540		190	U	67	J	190	U	200	U
Carbazole	180	U	540		190	U	190	U	190	U	200	U
Di-n-butylphthalate	180	U	540		190	U	190	U	190	U	200	U
Fluoranthene	180	U	540		450		390		240		380	
Pyrene	180	U	540		380		410		210		300	
Butylbenzylphthalate	180	U	540		190	U	190	U	190	U	200	U
3,3'-Dichlorobenzidine	180	U	540		190	U	190	U	190	U	200	U
Benzo(a)anthracene	180	U	540		240		260		130	J	180	J
Chrysene	180	U	540		270		330		150	J	210	
Bis(2-ethylhexyl)phtha	180	U	540		38	J	45	J	190	U	200	U
Di-n-octylphthalate	180	U	540		190	U	190	U	190	U	200	U
Benzo(b)fluoranthene	180	U	540		240		350		150	J	170	J
Benzo(k)fluoranthene	180	U	540		420		200		110	J	180	J
Benzo(a)pyrene	180	U	540		300		260		130	J	180	J
Indeno(1,2,3-cd)pyren	180	U	540		230		230		100	J	140	J
Dibenzo(a,h)anthracen	180	U	540		66	J	100	J	190	U	41	J
Benzo(g,h,i)perylene	180	U	540		230		220		95	J	120	J
2,3,4,6-Tetrachlorophe	180	U	540		190	U	190	U	190	U	200	U

TABLE 13
Havana Right of Way
Soil Analytical Results
SVOCs

Sample Number :	E00B5	E00B6	E00B8	E00B9				
Sampling Location :	X109	X110	X111	X112				
Matrix :	Soil	Soil	Soil	Soil				
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg				
Date Sampled :	4/29/2008	4/29/2008	4/30/2008	4/30/2008				
Time Sampled :								
%Moisture :	12	11	11	7				
pH :	6.9	6.9	8.0	8.5				
Dilution Factor :	1.0	1.0	1.0	1.0				
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	190	U	190	U	190	U	180	U
Phenol	190	U	190	U	190	U	180	U
Bis(2-Chloroethyl)ether	190	U	190	U	190	U	180	U
2-Chlorophenol	190	U	190	U	190	U	180	U
2-Methylphenol	190	U	190	U	190	U	180	U
2,2'-Oxybis(1-chloropropane)	190	U	190	U	190	U	180	U
Acetophenone	190	U	190	U	190	U	180	U
4-Methylphenol	190	U	190	U	190	U	180	U
N-Nitroso-di-n-propylamine	190	U	190	U	190	U	180	U
Hexachloroethane	190	U	190	U	190	U	180	U
Nitrobenzene	190	U	190	U	190	U	180	U
Isophorone	190	U	190	U	190	U	180	U
2-Nitrophenol	190	U	190	U	190	U	180	U
2,4-Dimethylphenol	190	U	190	U	190	U	180	U
Bis(2-chloroethoxy)methane	190	U	190	U	190	U	180	U
2,4-Dichlorophenol	190	U	190	U	190	U	180	U
Naphthalene	83	J	69	J	190	U	180	U
4-Chloroaniline	190	U	190	U	190	U	180	U
Hexachlorobutadiene	190	U	190	U	190	U	180	U
Caprolactam	190	U	190	U	190	U	180	UJ
4-Chloro-3-methylphenol	190	U	190	U	190	U	180	U
2-Methylnaphthalene	170	J	150	J	68	J	180	U
Hexachlorocyclopentadiene	190	U	190	U	190	U	180	U
2,4,6-Trichlorophenol	190	U	190	U	190	U	180	U
2,4,5-Trichlorophenol	190	U	190	U	190	U	180	U
1,1'-Biphenyl	190	U	190	U	190	U	180	UJ
2-Chloronaphthalene	190	U	190	U	190	U	180	U
2-Nitroaniline	370	U	370	U	370	U	350	U
Dimethylphthalate	190	U	190	U	190	U	180	UJ
2,6-Dinitrotoluene	190	U	190	U	190	U	180	U
Acenaphthylene	94	J	100	J	190	U	180	U
3-Nitroaniline	370	U	370	U	370	U	350	U
Acenaphthene	190	U	190	U	190	U	180	U

TABLE 13
Havana Right of Way
Soil Analytical Results
SVOCs

Sample Number :	E00B5	E00B6	E00B8	E00B9				
Sampling Location :	X109	X110	X111	X112				
Matrix :	Soil	Soil	Soil	Soil				
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg				
Date Sampled :	4/29/2008	4/29/2008	4/30/2008	4/30/2008				
Time Sampled :								
%Moisture :	12	11	11	7				
pH :	6.9	6.9	8.0	8.5				
Dilution Factor :	1.0	1.0	1.0	1.0				
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	370	U	370	U	370	U	350	U
4-Nitrophenol	370	U	370	U	370	U	350	U
Dibenzofuran	60	J	76	J	190	U	180	U
2,4-Dinitrotoluene	190	U	190	U	190	U	180	U
Diethylphthalate	190	U	190	U	190	U	180	UJ
Fluorene	190	U	190	U	190	U	180	U
4-Chlorophenyl-phenyl	190	U	190	U	190	U	180	U
4-Nitroaniline	370	U	370	U	370	U	350	U
4,6-Dinitro-2-methylph	370	U	370	U	370	U	350	U
N-Nitrosodiphenylamin	190	U	190	U	190	U	180	U
1,2,4,5-Tetrachlorober	190	U	190	U	190	U	180	U
4-Bromophenyl-phenyl	190	U	190	U	190	U	180	U
Hexachlorobenzene	190	U	190	U	190	U	180	U
Atrazine	190	U	190	U	190	U	180	U
Pentachlorophenol	370	U	370	U	370	U	350	U
Phenanthrene	280		320		40	J	36	J
Anthracene	52	J	42	J	190	U	180	U
Carbazole	71	J	46	J	190	U	180	U
Di-n-butylphthalate	190	U	190	U	190	U	180	UJ
Fluoranthene	540		460		190	UJ	180	UJ
Pyrene	520		440		190	UJ	180	UJ
Butylbenzylphthalate	190	U	190	U	190	U	180	UJ
3,3'-Dichlorobenzidine	190	U	190	U	190	U	180	U
Benzo(a)anthracene	390		300		190	UJ	180	UJ
Chrysene	520		400		190	UJ	180	UJ
Bis(2-ethylhexyl)phtha	190	U	190	U	190	U	180	UJ
Di-n-octylphthalate	190	U	190	U	190	U	180	UJ
Benzo(b)fluoranthene	770		670		190	U	180	UJ
Benzo(k)fluoranthene	880		650		190	U	180	UJ
Benzo(a)pyrene	660		560		190	U	180	UJ
Indeno(1,2,3-cd)pyren	640		480		190	U	180	UJ
Dibenzo(a,h)anthracene	220		210		190	U	180	UJ
Benzo(g,h,i)perylene	470		410		190	U	180	UJ
2,3,4,6-Tetrachlorophe	190	U	190	U	190	U	180	U

TABLE 14
Havana Right of Way
Soil Analytical Results
Pesticides

Sample Number :	E0087				E00A1		E00A3		E00A7	
Sampling Location :	X101				X103		X105		X106	
Matrix :	Soil				Soil		Soil		Soil	
Units :	ug/Kg				ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/28/2008				4/28/2008		4/29/2008		4/29/2008	
Time Sampled :										
%Moisture :	8				11		11		13	
pH :	6.9				8.7		7.7		5.2	
Dilution Factor :	1.0				1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	U	5.4		1.9	U	1.9	U	1.9	U
beta-BHC	1.8	U	5.4		1.9	U	1.9	U	1.9	U
delta-BHC	1.8	U	5.4		1.9	U	1.9	U	1.9	U
gamma-BHC (Lindane)	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Heptachlor	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Aldrin	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Heptachlor epoxide	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Endosulfan I	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Dieldrin	3.6	U	10.8		3.7	U	3.7	U	3.8	U
4,4'-DDE	3.6	U	10.8		3.7	U	3.7	U	3.8	U
Endrin	3.6	U	10.8		3.7	U	3.7	U	3.8	U
Endosulfan II	3.6	U	10.8		3.7	U	3.7	U	3.8	U
4,4'-DDD	3.6	U	10.8		3.7	U	3.7	U	3.8	U
Endosulfan sulfate	3.6	U	10.8		3.7	U	3.7	U	3.8	U
4,4'-DDT	3.6	U	10.8		3.7	U	3.7	U	3.8	U
Methoxychlor	11	J	33		19	U	19	U	19	U
Endrin ketone	3.6	U	10.8		3.7	U	3.7	U	3.8	U
Endrin aldehyde	3.6	U	10.8		3.7	U	3.7	U	3.8	U
alpha-Chlordane	1.8	U	5.4		1.9	U	1.9	U	1.9	U
gamma-Chlordane	1.8	U	5.4		1.9	U	1.9	U	1.9	U
Toxaphene	180	U	540		190	U	190	U	190	U

TABLE 14
Havana Right of Way
Soil Analytical Results
Pesticides

Sample Number :	E00B5	E00B6	E00B8	E00B9				
Sampling Location :	X109	X110	X111	X112				
Matrix :	Soil	Soil	Soil	Soil				
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg				
Date Sampled :	4/29/2008	4/29/2008	4/30/2008	4/30/2008				
Time Sampled :								
%Moisture :	12	11	11	7				
pH :	6.9	6.9	8.0	8.5				
Dilution Factor :	1.0	1.0	1.0	1.0				
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.9	U	1.9	U	1.9	U	1.8	U
beta-BHC	1.9	U	1.9	U	1.9	U	1.8	U
delta-BHC	1.9	U	1.9	U	1.9	U	1.8	U
gamma-BHC (Lindane)	1.9	U	1.9	U	1.9	U	1.8	U
Heptachlor	1.9	U	1.9	U	1.9	U	1.8	U
Aldrin	1.9	U	1.9	U	1.9	U	1.8	U
Heptachlor epoxide	1.9	U	1.9	U	1.9	U	1.8	U
Endosulfan I	1.9	U	1.9	U	1.9	U	1.8	U
Dieldrin	3.7	U	3.7	U	3.7	U	3.5	U
4,4'-DDE	3.7	U	3.7	U	3.7	U	3.5	U
Endrin	3.7	U	3.7	U	3.7	U	3.5	U
Endosulfan II	3.7	U	3.7	U	3.7	U	3.5	U
4,4'-DDD	3.7	U	3.7	U	3.7	U	3.5	U
Endosulfan sulfate	3.7	U	3.7	U	3.7	U	3.5	U
4,4'-DDT	3.7	U	3.7	U	3.7	U	3.5	U
Methoxychlor	19	U	19	U	19	U	18	U
Endrin ketone	3.7	U	3.7	U	3.7	U	3.5	U
Endrin aldehyde	3.7	U	3.7	U	3.7	U	3.5	U
alpha-Chlordane	1.9	U	1.9	U	1.9	U	1.8	U
gamma-Chlordane	1.9	U	1.9	U	1.9	U	1.8	U
Toxaphene	190	U	190	U	190	U	180	U

TABLE 14
Havana Right of Way
Soil Analytical Results
Pesticides

Sample Number :	E00A8	Sampling Location :	X107	Matrix :	Soil	Units :	ug/Kg	E00C1MS	X113	E00C1MSD	X113	PBLKFV	Soil
Date Sampled :													
Time Sampled :													
%Moisture :	13		12		12							0	
pH :	6.2		7.8		7.8								
Dilution Factor :	1.0		1.0		1.0							1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result
alpha-BHC	1.9	U	1.9	U	1.9	U	1.7	U					
beta-BHC	1.9	U	1.9	U	1.9	U	1.7	U					
delta-BHC	1.9	U	1.9	U	1.9	U	1.7	U					
gamma-BHC (Lindane)	1.9	U	10		11		1.7	U					
Heptachlor	1.9	U	11		13		1.7	U					
Aldrin	1.9	U	10		11		1.7	U					
Heptachlor epoxide	1.9	U	1.9	U	1.9	U	1.7	U					
Endosulfan I	1.9	U	1.9	U	1.9	U	1.7	U					
Dieldrin	3.8	U	26		29		3.3	U					
4,4'-DDE	3.8	U	3.7	U	3.7	U	3.3	U					
Endrin	3.8	U	31		34		3.3	U					
Endosulfan II	3.8	U	3.7	U	3.7	U	3.3	U					
4,4'-DDD	3.8	U	3.7	U	3.7	U	3.3	U					
Endosulfan sulfate	3.8	U	3.7	U	3.7	U	3.3	U					
4,4'-DDT	3.8	U	26		31		3.3	U					
Methoxychlor	19	U	19	U	19	U	17	U					
Endrin ketone	3.8	U	3.7	U	3.7	U	3.3	U					
Endrin aldehyde	3.8	U	3.7	U	3.7	U	3.3	U					
alpha-Chlordane	1.9	U	1.9	U	1.9	U	1.7	U					
gamma-Chlordane	1.9	U	1.9	U	1.9	U	1.7	U					
Toxaphene	190	U	190	U	190	U	170	U					

TABLE 15
Havana Right of Way
Soil Analytical Results
PCBs

Sample Number :	E0087	Sampling Location :	X101	Matrix :	Soil	Units :	ug/Kg	Date Sampled :	4/28/2008	Time Sampled :	3 times background	E00A1	X103	E00A3	X105	E00A7	X106
%Moisture :	8	pH :	6.9	Dilution Factor :	1.0							ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	
Aroclor-1016	36	U	108		37	U	37	U	38	U							
Aroclor-1221	36	U	108		37	U	37	U	38	U							
Aroclor-1232	36	U	108		37	U	37	U	38	U							
Aroclor-1242	36	U	108		37	U	37	U	38	U							
Aroclor-1248	36	U	108		37	U	37	U	38	U							
Aroclor-1254	36	U	108		37	U	37	U	38	U							
Aroclor-1260	36	U	108		37	U	37	U	38	U							
Aroclor-1262	36	U	108		37	U	37	U	38	U							
Aroclor-1268	36	U	108		37	U	37	U	38	U							

TABLE 15
Havana Right of Way
Soil Analytical Results
PCBs

Sample Number :	E00A8	E00B5	E00B6	E00B8	E00B9					
Sampling Location :	X107	X109	X110	X111	X112					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg					
Date Sampled :	4/29/2008	4/29/2008	4/29/2008	4/30/2008	4/30/2008					
Time Sampled :										
%Moisture :	13	12	11	11	7					
pH :	6.2	6.9	6.9	8.0	8.5					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	38	U	37	U	37	U	37	U	35	U
Aroclor-1221	38	U	37	U	37	U	37	U	35	U
Aroclor-1232	38	U	37	U	37	U	37	U	35	U
Aroclor-1242	38	U	37	U	37	U	37	U	35	U
Aroclor-1248	38	U	37	U	37	U	37	U	35	U
Aroclor-1254	38	U	37	U	37	U	37	U	35	U
Aroclor-1260	38	U	37	U	37	U	37	U	35	U
Aroclor-1262	38	U	37	U	37	U	37	U	35	U
Aroclor-1268	38	U	37	U	37	U	37	U	35	U

TABLE 16
Havana Right of Way
Ground Water Analytical Results
Metals

Sample Number :	ME0087			ME0097		ME00A3D	
Sampling Location :	X101			X102		X105	
Matrix :	Soil			Soil		Soil	
Units :	mg/Kg			mg/Kg		mg/Kg	
Date Sampled :	4/28/2008			4/28/2008		4/29/2008	
Time Sampled :							
%Solids :	91.6			85.5		90.7	
Dilution Factor :	1.0			1.0		1.0	
ANALYTE	Result	Flag	Result	Result	Flag	Result	Flag
ALUMINUM	2550		7650	4410		3370	
ANTIMONY	6.6	UJ	19.8	7.0	UJ	1.8	J
ARSENIC	2.8		8.4	5.9		131	
BARIUM	38.1		114.3	161		72.9	
BERYLLIUM	0.20	J	0.6	0.67		0.76	
CADMIUM	0.20	J	0.6	1.2		1.9	
CALCIUM	18000		54000	4130		12800	
CHROMIUM	4.7		14.1	10.4		9.4	
COBALT	2.9	J	8.7	5.4	UJ	4.5	J
COPPER	5.1		15.3	16.9		78.7	
IRON	4880		14640	9770		27900	
LEAD	11.6		34.8	110		211	
MAGNESIUM	689		2067	1070		2390	
MANGANESE	268		804	684		367	
MERCURY	0.11	U	0.33	0.096	J	0.11	
NICKEL	4.8		14.4	10.1		14.5	
POTASSIUM	431	J	1293	869		488	J
SELENIUM	0.43	J	1.29	0.84	J	1.7	J
SILVER	0.67	UJ	2.01	0.43	J	0.93	J
SODIUM	15.2	J	45.6	45.2	J	297	J
THALLIUM	0.50	UJ	1.5	0.82	UJ	1.1	J
VANADIUM	7.2		21.6	12.2		10.0	
ZINC	30.4		91.2	179		270	
CYANIDE	2.7	U	8.1	2.9	U		

TABLE 16
Havana Right of Way
Soil Analytical Results
Metals

Sample Number :	ME00A0	ME00A1	ME00A3	ME00A7	ME00A8				
Sampling Location :	X104	X103	X105	X106	X107				
Matrix :	Soil	Soil	Soil	Soil	Soil				
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg				
Date Sampled :	4/29/2008	4/28/2008	4/29/2008	4/29/2008	4/29/2008				
Time Sampled :									
%Solids :	82.1	85.5	90.8	78.7	93.1				
Dilution Factor :	1.0	1.0	1.0	1.0	1.0				
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	
ALUMINUM	4060		3450		3350		2200		2640
ANTIMONY	7.3	UJ	8.6	J	2.0	UJ	7.6	UJ	0.39
ARSENIC	7.8		780		110		6.4		7.4
BARIUM	1020		86.6		64.1		104		62.8
BERYLLIUM	0.68		0.93		0.75		0.33	J	0.47
CADMIUM	3.6		1.5		1.6		0.32	UJ	0.82
CALCIUM	23700		17000		14900		958		2580
CHROMIUM	20.9		11.5		8.5		18.5		10.3
COBALT	4.1	UJ	6.3		4.0	UJ	0.82	UJ	3.0
COPPER	28.5		63.4		64.3		175		40.2
IRON	17600		28100		20800		88600		12600
LEAD	1460		358		185		28.7		198
MAGNESIUM	2740		4760		2380		328	J	634
MANGANESE	534		494		339		59.3		193
MERCURY	0.047	J	0.19		0.12		0.13	U	0.13
NICKEL	12.4		18.0		12.8		13.4		8.2
POTASSIUM	920		562	J	468	J	1840		317
SELENIUM	1.2	J	2.2	J	1.5	J	4.9		0.81
SILVER	1.1	J	1.1	J	1.1	J	1.7	J	0.30
SODIUM	218	J	185	J	303	J	290	J	142
THALLIUM	0.63	UJ	1.2	UJ	0.77	UJ	1.9	UJ	0.63
VANADIUM	12.7		15.9		10.1		22.5		9.4
ZINC	586		212		254		18.2		106
CYANIDE	3.0	U	2.9	U	2.8	U	3.2	U	2.7

TABLE 16
Havana Right of Way
Soil Water Analytical Results
Metals

Sample Number :	ME00A9	ME00B5	ME00B6	ME00B8	ME00B9					
Sampling Location :	X108	X109	X110	X111	X112					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Date Sampled :	4/29/2008	4/29/2008	4/29/2008	4/30/2008	4/30/2008					
Time Sampled :										
%Solids :	91.4	89.5	87.8	87.6	94.2					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	2680		3640		4270		3530		2840	
ANTIMONY	2.1	J	6.7	UJ	6.8	UJ	2.0	J	31.7	J
ARSENIC	419		97.1		77.6		7.6		141	
BARIUM	49.2		63.6		72.3		41.6		62.6	
BERYLLIUM	0.43	J	0.70		0.86		0.57		0.45	J
CADMIUM	0.65		1.4		1.6		0.73		0.81	
CALCIUM	8310		9120		11000		14900		18600	
CHROMIUM	8.1		10.2		10.2		7.2		8.7	
COBALT	3.7	UJ	4.4	UJ	4.1	UJ	4.2	UJ	5.3	U
COPPER	26.6		36.9		35.6		31.2		72.4	
IRON	16500		30300		26500		17300		16600	
LEAD	59.4		125		217		110		803	
MAGNESIUM	3940		2650		2780		6600		8800	
MANGANESE	273		306		301		306		466	
MERCURY	0.049	J	0.014	J	0.020	J	0.025	J	0.023	J
NICKEL	10.7		13.6		14.2		11.8		12.5	
POTASSIUM	433	J	428	J	606		409	J	390	J
SELENIUM	0.84	J	1.3	J	1.2	J	0.76	J	0.72	J
SILVER	0.74	J	0.94	J	1.1	J	0.92	J	1.0	J
SODIUM	92.1	J	190	J	267	J	91.5	J	81.9	J
THALLIUM	0.87	UJ	1.0	UJ	1.2	UJ	0.70	UJ	0.57	UJ
VANADIUM	7.7		10.7		11.5		10.5		10.5	
ZINC	78.5		180		175		103		75.2	
CYANIDE	2.7	U	2.8	U	2.8	U	2.9	U	2.7	U

Table 17
XRF Data

Site: Havana Right of Way																
No	Cor1	Mo	Zr	Sr	Rb	Pb	Se	As	Hg	Zn	Cu	Ni	Co	Fe	Mn	Cr
1	Shutter C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2		25.1	1069.6	154.3	123.5	483.6	342.4	475.2	<LOD	65.5	<LOD	<LOD	<LOD	30387.2	<LOD	398.4
3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5		<LOD	6.9	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
6		23.9	110.4	331.2	145.3	5737.6	<LOD	725.6	<LOD	7328	3009.6	<LOD	<LOD	34483.2	10297.6	<LOD
7		<LOD	83.5	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	4908.8	<LOD	<LOD
8		<LOD	57.1	<LOD	20.9	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	5017.6	<LOD	326.2
9		<LOD	75	<LOD	34.2	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3728	<LOD	<LOD
10		<LOD	65.2	<LOD	35.2	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7084.8	<LOD	<LOD
11		<LOD	100.1	<LOD	33.5	65.5	<LOD	<LOD	<LOD	122.8	<LOD	<LOD	<LOD	11494.4	<LOD	<LOD
12		<LOD	106.1	<LOD	36.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	8934.4	<LOD	<LOD
13		<LOD	35.3	<LOD	27.8	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	4169.6	<LOD	<LOD
14		<LOD	22.6	<LOD	21	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	4128	<LOD	<LOD
15		<LOD	34	<LOD	19.9	212.2	<LOD	<LOD	<LOD	141	<LOD	<LOD	<LOD	12595.2	<LOD	<LOD
16		<LOD	34	<LOD	19.9	212.2	<LOD	<LOD	<LOD	141	<LOD	<LOD	<LOD	12595.2	<LOD	<LOD
17		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1069.6	<LOD	<LOD	<LOD	<LOD	<LOD	17689.6	<LOD	<LOD
18		<LOD	67.8	<LOD	22.4	174.1	<LOD	450.4	<LOD	122.8	<LOD	<LOD	<LOD	16588.8	<LOD	<LOD
19		<LOD	43.6	<LOD	35.8	<LOD	<LOD	93	<LOD	<LOD	<LOD	<LOD	<LOD	5587.2	<LOD	<LOD
20	Shutter C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
21		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
22		20.5	126.5	308.8	139.7	5657.6	<LOD	752	<LOD	7129.6	2840	<LOD	<LOD	34995.2	9939.2	<LOD
23		<LOD	26.1	<LOD	41.4	179.9	<LOD	<LOD	<LOD	190.2	<LOD	<LOD	<LOD	37580.8	<LOD	<LOD
24		<LOD	28	<LOD	22.9	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3609.6	<LOD	<LOD
25		<LOD	28	<LOD	22.9	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3609.6	<LOD	<LOD
26		<LOD	65.5	<LOD	25.8	98	<LOD	<LOD	<LOD	185.1	<LOD	1200	<LOD	8505.6	<LOD	<LOD
27		<LOD	44.7	<LOD	23.7	50.6	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	8364.8	<LOD	<LOD
28		<LOD	71.7	<LOD	34.1	110.6	<LOD	<LOD	<LOD	114.4	<LOD	<LOD	<LOD	17088	<LOD	<LOD
29		<LOD	48.2	<LOD	31.9	87.2	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	21888	<LOD	657.2
30		<LOD	48.2	<LOD	31.9	87.2	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	21888	<LOD	657.2
31		<LOD	63.3	<LOD	28.4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7424	<LOD	<LOD
32		<LOD	59.8	<LOD	37.7	110.9	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	8876.8	<LOD	<LOD
33		<LOD	65.9	<LOD	<LOD	105.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	9286.4	<LOD	<LOD

<LOD = Less than Limit of Detection

34	33.1	58.6	<LOD	<LOD	126.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	9356.8	<LOD	<LOD
35	<LOD	76.3	<LOD	92.6	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	587776	<LOD	<LOD
36	<LOD	52.9	<LOD	43	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	77260.8	<LOD	<LOD
37	<LOD	77.7	<LOD	25.4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	14195.2	<LOD	<LOD
38	<LOD	43.7	<LOD	35.1	74	<LOD	<LOD	<LOD	194.5	<LOD	<LOD	<LOD	28390.4	<LOD	<LOD
39	<LOD	29.8	<LOD	26	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	22796.8	<LOD	<LOD
40	<LOD	57.8	<LOD	21.1	458.4	<LOD	273.6	<LOD	590	<LOD	<LOD	<LOD	38579.2	<LOD	<LOD
41	<LOD	147.8	<LOD	47	258.8	<LOD	149.3	<LOD	382.2	<LOD	<LOD	<LOD	98867.2	<LOD	<LOD
42	<LOD	224.4	<LOD	17.5	125	<LOD	61.4	<LOD	245.2	<LOD	<LOD	<LOD	79155.2	<LOD	<LOD
43	<LOD	118.5	<LOD	50.9	106.7	<LOD	775.6	<LOD	119.8	<LOD	<LOD	<LOD	47180.8	<LOD	<LOD
44	<LOD	32.2	<LOD	22.2	60.5	<LOD	<LOD	<LOD	250.4	<LOD	<LOD	<LOD	25792	<LOD	<LOD
45	<LOD	64.5	<LOD	30.4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	5187.2	<LOD	395
46	<LOD	36.2	<LOD	27.3	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	5017.6	<LOD	419.2
47	Shutter C@	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
48	<LOD	5.3	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
49	20.4	112.9	320.6	144.5	5760	<LOD	651.2	<LOD	7168	2809.6	<LOD	<LOD	34380.8	9996.8	<LOD
50	<LOD	37.1	<LOD	<LOD	212.2	<LOD	<LOD	<LOD	210.8	<LOD	<LOD	<LOD	23091.2	<LOD	<LOD
51	<LOD	50.7	<LOD	29.8	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	464	<LOD	5238.4	<LOD	<LOD
52	<LOD	34.8	<LOD	26	407	<LOD	287.6	<LOD	94.4	<LOD	<LOD	<LOD	21299.2	<LOD	<LOD
53	<LOD	22.1	<LOD	31.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3977.6	<LOD	<LOD
54	<LOD	72.6	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	17395.2	<LOD	<LOD
55	Shutter C@	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
56	Shutter C@	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
57	<LOD	7.4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
58	15.9	117.4	299.4	166.6	5760	<LOD	691.2	<LOD	7129.6	2948.8	<LOD	<LOD	35686.4	10099.2	<LOD
59	<LOD	116.4	<LOD	26.9	48.2	<LOD	<LOD	<LOD	180.6	<LOD	396.6	<LOD	7238.4	<LOD	<LOD
60	<LOD	25.3	<LOD	<LOD	410	<LOD	<LOD	<LOD	1060	<LOD	<LOD	<LOD	26598.4	<LOD	<LOD
61	<LOD	50.5	<LOD	<LOD	142.2	<LOD	<LOD	<LOD	880	<LOD	<LOD	<LOD	10099.2	<LOD	<LOD
62	<LOD	139.5	<LOD	<LOD	560.8	<LOD	<LOD	<LOD	5440	<LOD	<LOD	<LOD	98662.4	<LOD	<LOD
63	<LOD	204.4	339.6	109.6	371.6	<LOD	<LOD	<LOD	2268.8	<LOD	<LOD	<LOD	196915	<LOD	<LOD
64	<LOD	254	<LOD	<LOD	4348.8	<LOD	<LOD	<LOD	32000	<LOD	<LOD	<LOD	153907	<LOD	<LOD
65	<LOD	180.6	<LOD	44.3	606.4	<LOD	<LOD	<LOD	2388.8	<LOD	<LOD	<LOD	23193.6	<LOD	<LOD
66	86.4	134.1	376.4	115.9	560.8	<LOD	<LOD	<LOD	6988.8	<LOD	<LOD	<LOD	404890	<LOD	<LOD
67	<LOD	239.4	<LOD	41.1	114.4	<LOD	<LOD	<LOD	317.4	<LOD	<LOD	<LOD	7366.4	<LOD	<LOD
68	<LOD	64.8	<LOD	<LOD	167.5	<LOD	<LOD	<LOD	705.6	<LOD	<LOD	<LOD	19392	<LOD	902.4
69	<LOD	47.4	<LOD	<LOD	380.2	<LOD	<LOD	<LOD	1859.2	<LOD	<LOD	<LOD	7347.2	<LOD	<LOD
70	<LOD	71.3	171	199.4	348.6	<LOD	<LOD	<LOD	257.6	86784	<LOD	<LOD	121958	<LOD	<LOD

<LOD = Less than Limit of Detection

Sample #	Analyte	Result mg/Kg	3xs Background mg/Kg	RML	Result Location
X104	Copper	28.5	15.3	120000	Table 16
X105	Copper	64.3	15.3	120000	Table 16
X105D	Copper	78.7	15.3	120000	Table 16
X106	Copper	175	15.3	120000	Table 16
X107	Copper	40.2	15.3	120000	Table 16
X108	Copper	26.6	15.3	120000	Table 16
X109	Copper	36.9	15.3	120000	Table 16
X110	Copper	35.6	15.3	120000	Table 16
X111	Copper	31.2	15.3	120000	Table 16
X112	Copper	72.4	15.3	120000	Table 16
X103	Iron	28100	14640	2100000	Table 16
X104	Iron	17600	14640	2100000	Table 16
X105	Iron	20800	14640	2100000	Table 16
X105D	Iron	27900	14640	2100000	Table 16
X106	Iron	88600	14640	2100000	Table 16
X108	Iron	16500	14640	2100000	Table 16
X109	Iron	30300	14640	2100000	Table 16
X110	Iron	26500	14640	2100000	Table 16
X111	Iron	17300	14640	2100000	Table 16
X112	Iron	16600	14640	2100000	Table 16
X102	Lead	110	34.8	800	Table 16
X103	Lead	358	34.8	800	Table 16
X104	Lead	1460	34.8	800	Table 16
X105	Lead	185	34.8	800	Table 16
X105D	Lead	211	34.8	800	Table 16
X107	Lead	198	34.8	800	Table 16
X108	Lead	59.4	34.8	800	Table 16
X109	Lead	125	34.8	800	Table 16
X110	Lead	217	34.8	800	Table 16
X111	Lead	110	34.8	800	Table 16
X112	Lead	803	34.8	800	Table 16
X103	Magnesium	4760	2067		Table 16
X104	Magnesium	2740	2067		Table 16
X105	Magnesium	2380	2067		Table 16
X105D	Magnesium	2390	2067		Table 16
X108	Magnesium	3940	2067		Table 16
X109	Magnesium	2650	2067		Table 16
X110	Magnesium	2780	2067		Table 16
X111	Magnesium	6600	2067		Table 16
X112	Magnesium	8800	2067		Table 16
X103	Nickel	18.0	14.4		Table 16
X105D	Nickel	14.5	14.4		Table 16
X106	Potassium	1840	1293		Table 16
X103	Selenium	2.2	1.29	15000	Table 16
X106	Selenium	4.9	1.29	15000	Table 16
X109	Selenium	1.3	1.29	15000	Table 16

Sample #	Analyte	Result mg/Kg	3xs Background mg/Kg	RML mg/Kg	Result Location
X107	Methylene Chloride	15	14.4	9200	Table 12
X109	Methylene Chloride	26	14.4	9200	Table 12
X110	Methylene Chloride	18	14.4	9200	Table 12
X103	Tetrachloroethene	46	14.4	1200	Table 12
X109	Fluoranthene	540	540	66000	Table 12
X109	Benzo(b)fluoranthene	770	540	210	Table 12
X110	Benzo(b)fluoranthene	670	540	210	Table 12
X109	Benzo(k)fluoranthene	880	540	2100	Table 12
X110	Benzo(k)fluoranthene	650	540	2100	Table 12
X109	Benzo(a)pyrene	660	540	21	Table 12
X110	Benzo(a)pyrene	560	540	21	Table 12
X109	Indeno(1,2,3-cd)pyrene	640	540	210	Table 12
X112	Antimony	31.7	19.8	1200	Table 16
X103	Arsenic	780	8.4	160	Table 16
X105	Arsenic	110	8.4	160	Table 16
X105D	Arsenic	131	8.4	160	Table 16
X108	Arsenic	419	8.4	160	Table 16
X109	Arsenic	97.1	8.4	160	Table 16
X110	Arsenic	77.6	8.4	160	Table 16
X112	Arsenic	141	8.4	160	Table 16
X102	Barium	161	114	570000	Table 16
X104	Barium	1020	114	570000	Table 16
X102	Beryllium	0.67	0.60	6000	Table 16
X103	Beryllium	0.93	0.60	6000	Table 16
X104	Beryllium	0.68	0.60	6000	Table 16
X105	Beryllium	0.75	0.60	6000	Table 16
X105D	Beryllium	0.76	0.60	6000	Table 16
X109	Beryllium	0.70	0.60	6000	Table 16
X110	Beryllium	0.86	0.60	6000	Table 16
X102	Cadmium	1.2	0.60	2400	Table 16
X103	Cadmium	1.5	0.60	2400	Table 16
X104	Cadmium	3.6	0.60	2400	Table 16
X105	Cadmium	1.6	0.60	2400	Table 16
X105D	Cadmium	1.9	0.60	2400	Table 16
X107	Cadmium	0.82	0.60	2400	Table 16
X108	Cadmium	0.65	0.60	2400	Table 16
X109	Cadmium	1.4	0.60	2400	Table 16
X110	Cadmium	1.6	0.60	2400	Table 16
X111	Cadmium	0.73	0.60	2400	Table 16
X112	Cadmium	0.81	0.60	2400	Table 16
X104	Chromium	20.9	14.1	560	Table 16
X106	Chromium	18.5	14.1	560	Table 16
X102	Copper	16.9	15.3	120000	Table 16
X103	Copper	63.4	15.3	120000	Table 16

Sample #	Analyte	Result mg/Kg	3xs Background mg/Kg	RML	Result Location
X103	Sodium	185	45.6		Table 16
X104	Sodium	218	45.6		Table 16
X105	Sodium	303	45.6		Table 16
X105D	Sodium	297	45.6		Table 16
X106	Sodium	290	45.6		Table 16
X107	Sodium	142	45.6		Table 16
X108	Sodium	92.1	45.6		Table 16
X109	Sodium	190	45.6		Table 16
X110	Sodium	267	45.6		Table 16
X111	Sodium	91.5	45.6		Table 16
X112	Sodium	81.9	45.6		Table 16
X106	Thallium	1.9	1.5	31	Table 16
X106	Vanadium	22.5	21.6	15000	Table 16
X102	Zinc	179	91.2	920000	Table 16
X103	Zinc	212	91.2	920000	Table 16
X104	Zinc	586	91.2	920000	Table 16
X105	Zinc	254	91.2	920000	Table 16
X105D	Zinc	270	91.2	920000	Table 16
X107	Zinc	106	91.2	920000	Table 16
X109	Zinc	180	91.2	920000	Table 16
X110	Zinc	175	91.2	920000	Table 16
X111	Zinc	103	91.2	920000	Table 16

Sample #	Analyte	Result ug/L	3xs Background ug/L	RML ug/L	Result Location
G205	Trichloroethene	2.0	1.5	7.7	Table 1
G201	Chromium	1.3	0.87	3.1	Table 6
G204	Chromium	1.3	0.87	3.1	Table 6
G205	Chromium	0.87	0.87	3.1	Table 6
G201	Copper	9.0	1.05	1900	Table 6
G203	Copper	19.0	1.05	1900	Table 6
G204	Copper	18.9	1.05	1900	Table 6
G205	Copper	6.0	1.05	1900	Table 6
G205D	Copper	5.9	1.05	1900	Table 6
G201	Lead	1.3	1.02	15	Table 6
G203	Lead	7.8	1.02	15	Table 6
G204	Lead	8.9	1.02	15	Table 6
G204	Silver	0.16	0.15	210	Table 6
G203	Zinc	200	183	14000	Table 6
G205	Zinc	851	183	14000	Table 6
G205D	Zinc	853	183	14000	Table 6
G103	cis-1,2-Dichloroethene	84	15	83	Table 7
G103DL	cis-1,2-Dichloroethene	68	15	83	Table 7
G103	Tetrachloroethene	260	15	100	Table 7
G103DL	Tetrachloroethene	190	15	100	Table 7
G103	1,1,1-Trichloroethane	45	15	22000	Table 7
G103DL	1,1,1-Trichloroethane	30	15	22000	Table 7
G102	Aluminum	1040	666	47000	Table 11
G105	Aluminum	5080	666	47000	Table 11
G106	Aluminum	956	666	47000	Table 11
G102	Barium	43.5	41.7	8600	Table 11
G103	Barium	62.8	41.7	8600	Table 11
G103D	Barium	62.1	41.7	8600	Table 11
G103F	Barium	62.0	41.7	8600	Table 11
G104	Barium	56.5	41.7	8600	Table 11
G105	Barium	51.1	41.7	8600	Table 11
FB	Barium	222	41.7	8600	Table 11
G102	Chromium	5.1	3.9	100	Table 11
G104	Chromium	16.8	3.9	100	Table 11
G105	Chromium	15.0	3.9	100	Table 11
G106	Chromium	5.4	3.9	100	Table 11
FB	Chromium	11.1	3.9	100	Table 11
G102	Iron	2560	1524	33000	Table 11
G104	Iron	10500	1524	33000	Table 11
G105	Iron	11200	1524	33000	Table 11
G106	Iron	2730	1524	33000	Table 11
G104	Lead	12.6	8.7	15	Table 11
G105	Lead	10.2	8.7	15	Table 11

G102	Manganese	359	259	N/A	Table 11
G104	Manganese	361	259	N/A	Table 11
G105	Manganese	404	259	N/A	Table 11
G106	Manganese	369	259	N/A	Table 11
G102	Potassium	9030	4470	N/A	Table 11
G102F	Potassium	8570	4470	N/A	Table 11
G103	Potassium	6650	4470	N/A	Table 11
G103F	Potassium	6640	4470	N/A	Table 11
G104	Potassium	4650	4470	N/A	Table 11
G102	Sodium	22300	18930	N/A	Table 11
G102F	Sodium	22100	18930	N/A	Table 11

Appendix – A

4-28-08 Fairieland Steel

219 W Tinkam Owner said
C 1215 4/28/08 well was 34'
deep.

1' Fine Sand Some Silt (dark)

XRF #7 —
PPb BK

2' Same as above

XRF #8 —
PPb BK

3' Same as above

XRF #9 —
PPb BK

5' Tan Sand

XRF #10 —
PPb BK

X101

Sample taken from 3" to 1.5' @ 12:35.

GW Point G101

total 33.5' exposed up 27.5'

Water @ 15' BGS

Began Ringe

13:05

G101	Temp	pH	Cond	
13:10	11.7 °C	6.52	0.5 ms/cm	LT TAN TINT
13:15	11.9	7.05	0.43	LT TAN TINT
13:20	12.1	7.14	0.424	CLEAR
13:25	12.1	7.16	0.422	CLEAR

Sample taken (G101) @ 13:30

200R.

727 S. State Street

X102 Sandy loam down to about a foot (1')
then dark fine sand down to 4'
1' XRF #11 Pb 65.5 pPb Ray background
2" " #12 Fe 8930 "

4' to 8' dark brown fine sand

5' XRF #13 Fe 4170 pPb Ray background

8' to 12" dark brown fine sand

10' XRF #14 Fe 4130 pPb Ray background
Sample X102 taken @ 14:45

GW POINT G102

TOTAL DEPTH 33.0' RETRACT RODS 4' TO 29'
DEPTH TO GW 15' BELOW GROUND SURFACE

G

	TEMP	pH	COND	BEGN PURGING (@) 1500
15:05	11.6 C	7.53	0.584	DARK BROWN IN COLOR
15:10	12.1	7.50	0.579	MED. BROWN TINT
15:15	12.1	7.47	0.575	" " "
15:20	12.2	7.47	0.572	LT. BROWN TINT

G102 SAMPLED @ 15:25 30' DEEP

4-28-08

3
X103 30R

0"-3" grass and gravel

3"-1' black oil stained

1'-3' gravel fill material brown

3"-4" tan fine sand

4"-8" tan fine sand

1' - Ppb 87 XRF *18 As 450

3.5' - " 84 XRF *19 As 93

Sample X103 taken at 16:45

4-29-08

G103 will be taken @ a monitoring well near
sample X103.

29' 6" to bottom of well

18' 4" to top of water column

time	temp °C	pH	cond.	comments
9:55	11.4	5.80	0.486	INITIAL ORANGE TINT BUT CLEARED IN 10 MIN.
10:05	12.1	6.80	0.462	CLEAR
10:10	12.4	7.06	0.459	CLEAR
10:15	12.5	7.09	0.461	CLEAR

SAMPLE COLLECTED @ 10:15 G103

30R

4-29-08

X105

XRF #23 @ 1' Pb: 180, PPb Ray. 12ppb

XRF #24 @ 2' Pb: 80L, PPB Ray. 0ppb

0-2" GRAVEL

2"-1' BLACK SILTY LOAM, BLACK SAND(FINE), CINDERS(FINE)

1"-2.2' MED-DK TAN FINE UNIFORM SAND

2.2"-3' MED TAN FINE UNIFORM SAND

TOTAL RECOVERY OF 3' IN SLEEVE.

Sample X105 and MS/MSD taken @
1' @ 11:40.

X106 taken @ private residence. GPs sd in.
XRF #27? Where were #25 & 26? P
One XRF was a duplicate the other
was operator error.

X107

1' XRF #28 Pb 111, Ray BK

2' XRF #29 Pb 87, Ray BK

CR 657, Ray BK

5' Bunt Black layer

6-7' Sandy Clay Light Brown

7-8' Fine Tan Sand

C. 1230 6"-1'

XRFs #30 - 34 taken across street @ residences

28R

X106

XRF #35 1' Fe 588K

0-3" gravel pavement

3"-3' same as X105

XRF #36 2' Fe 77.3K

XRF #37 3' Fe 14.2K

Pbb Ray @ 1', 2', 3' all background

3'-4' tan fine sand

X106 taken @ 1' @ 13:05

* Tom Cruise took XRF readings at unknown locations.

These are #38 & #39, #40, #41, #43

XRF #40 was taken south of main gate. This screening included Pb and As.

XRF #43 was taken at a railway south of site. Sample X108 taken here @ 13:30

G104 and G105 taken @ 13:40

Began Rrge @ 13:20 cloudy H. tan

13:25 12.8°C 7.42 pH 0.494 corol H tan t.n.t

13:30 13.1 7.35 0.493 "

13:35 13.1 7.41 0.495 "

30R

X109 XRF 2' #45 Cr. 395

0" - 9" fine tanned sand

9" - 2 $\frac{1}{2}$ ' stained black material

2 $\frac{1}{2}$ ' - 4' wet fine sand

XRF 3' #46 Cr 419

Sample X109 and X110 taken @ 14:55
at 2'

For groundwater the depth of the well was 30'.

The top of the water column was @ 16.5'.

<u>time</u>	<u>temp °C</u>	<u>pH</u>	<u>cond.</u>	<u>comments</u>
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15:05 Began purging

15:10 12.7 7.89 0.465 lt. brown tint

15:15 12.7 7.72 0.464 lt. brown tint

15:20 12.6 7.67 0.459 LT. TAN TINT

15:25 12.6 7.67 0.457 LT. TAN TINT

SAMPLE COLLECTED @ 15:30 G106

SPR

4-29-08

~~282~~ 4-30-08

XIII.

0' - 2' stained black sand & gravel fill

2' - 4' wet fine tan sand

XRF #50 1' Pb - 213

#51 3' Ni - 464

Sample XIII taken @ 830 at 1'

XIV

0' - 1.5' stained black sand & gravel fill

1.5' - 4' wet fine tan sand

XRF #52 As 288

#53 Fe 3980

MIP 0067 around 207K = baseline

flattened @ about 5'. Stayed flat until
20' which is when we stopped.

MIP 0068 around 300K = baseline

baseline kept dropping due to back-off of
contamination from last hole

No detects

MIP 0069 around 277K = baseline

No detects, water about 14.2'

MIP 0070 around 208K = baseline

MIP 0071 CHECK OF PROBE HEAD - OK

40

MIP 0072

Hint of a volatile + 12 ft?

X113 at MIP 0067

Sample taken @ 6' @ 14:45

Appendix – B

